Weatherly Index No. 002 **CATALOG NO.** OCTOBER 2011



CASE ENGINES
Replacement Parts Catalog

**GLOBAL TECHNOLOGY** behind every part





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Global Technology Behind Every Part

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## FP Diesel CA0095 Case Engine Parts Catalog

### Global Technology Behind Every Part

The new CA0095 Case Engine Parts Catalog contains all of the components currently offered from the FP Diesel brand for Case engines including applications using Cummins engines.

To get the right part you must have all information from the engine data plate affixed to the side of the engine block. You will need the engine model number and the engine serial number. On certain model Case engines you will also need the style of piston, piston pin diameter, thrust washer thickness and/or whether it is direct injected or

indirect injected. On Cummins engines you will need the piston number, and/or the CPL number, and/or the cylinder block, cylinder head, and connecting rod casting numbers.

Important Notice: This catalog is not intended to replace the Case parts books, micro-fiche or service manuals. If in doubt about the parts for your particular application, consult your Case OE publications.

### **How To Use This Catalog**

This catalog is designed to allow expedient identification of correct parts using the following information.

#### The catalog is sorted as follows:

Engine components are grouped in the following order:

1st Cylinder Head and Parts

2nd Intake and Exhaust Manifolds

3rd Camshaft Group

4th Fuel System and Parts

**5th** Cooling System

6th Engine Block and Parts

**7th** Crankshaft, Oil Pump and Related Parts

**8th** Cylinder Components (incl. Rod Bearings, Cylinder Sleeves, Pistons, Plston Rings)

The engines are listed in the following order:

**1st** by ENGINE DISPLACEMENT.

**2nd** by BORE DIAMETER. Engines with the same displacement are sorted by bore diameter.

**3rd** By USAGE. Engines will be listed for all models in the block for that specific application.

**4th** By INDUCTION SYSTEM. Naturally aspirated engines will be listed before Turbocharged engines.

Each engine header should provide all the information necessary to select the desired engine. Many of the headers include vehicle identification number listings to provide absolute assurance that the correct listing is being used.

The pages within the applications are easy to read, yet contain all the information required to select the correct part. The components in this catalog are listed in alphabetical order or A through Z.

FP Diesel uses a part numbering system similar to Case OEM number. In most instances, the number is the same except that the suffix of the Case number is omitted (when it serves no applicable purpose). For Example:

Case OEM Part Number A166122

FP Diesel Part Number FP-A166122

All manufacturers numbers, names, symbols and descriptions are used for reference purposes only. It is not implied that any part listed is the product of any specific manufacturer.

All information contained in this catalog is based on the latest data available at the time of printing. Although care has been taken to ensure the accuracy of the data compiled in this catalog, Federal-Mogul does not assume liability for errors or omissions.





## **Abbreviations Used**

### Global Technology Behind Every Part

ABBREVIATION	DESCRIPTION
&	And
2WD	Two Wheel Drive
4WD	
A.I.R	
A/C	Air Conditioning
A/R	
A/T	Automotic Transmission
ABS	
AC	
Acc	
Adj	
Adv	
Aft	
Alt	
Alum	
Amp	Ampere
AOD	Automatic Overdrive
Appl	
Approx	
Asst	
Assy	
ATV	All Terrain Vehicle
Auto	Automatic
Auto. Trans.	Automatic Transmission
Aux	
Avail	Available
Avg	
AWD	
Bal	
Batt.	
Bbl	Barrel
Bbl. Carb.	
Bef	
Brg	Bearing
Brkt	
C	
C.I	Cast Iron
C.R	
C/L	Centerline
Calib	Calibration
Calif	California
Cam	Camshaft
Can	
Carb.	
Cat	
CC	Cubic Centimeter
CCW	Counter Clockwise
CD	
CFFI	
CFI	
CFM	
CID	
Cld	
Clg	
Clr	
cm	
Cntr. Bore	
Compl	Complete

ABBREVIATION	DESCRIPTION
Con. Rod	Connecting Rod
Cruise	Cruise Control
Ctr	
CW	
Cyl	Cylinder
Cyl. Hd	Cylinder Head
DC	Direct Current
Deg	Digital First Injection
DFI	Digital Fuel Injection
DI	Direct injection
Dia	Diameter
Dim	Dimension
Dir. Inj	
Disc	Discontinued
Dist	Distributor
DOHC	
Dr	Door or Drive
E.E.C	Electronic Engine Control
E.I.S	Electronic Ignition System
Ea	Each
Ecc	Eccentric
ECM	Flectronic Computer Module
ECM	
ECM	Engine Control Module
Econ	Economy
ECS	Electronic Controlled Spark
EFI	Electronic Controlled Spark
Elec	Electronic Fuel injection
Emis	EIIIISSIOII
Eng.	Engine
Equip	Equipment
Etc	El Cetera
Exc	Except
Exh	Exhaust
Exp	Export
Ext	
Ext	
F	
Fed	
FL	
Flex	
Flg	
Flwr	Follower
Frg	Forged or Forging
Frt	
FWD	Front Wheel Drive
Gal	
Gas	
GPH	
GPM	
Grv(s)	
Gskt.	
GVW	
H/D	
Hd	
Пи	Ligh Engrav lanities
HEI	night Energy ignition





## **Abbreviations Used**

### Global Technology Behind Every Part

ABBREVIATION	DESCRIPTION
Hi Alt	High Altitude
Hi-Perf	High Performance
Hi-Temp	High Temperature
НО	
Horiz	
HP	
HSC	
Hyd	
I/C	
I.D	
ID	Incide Diameter
IDI	
In. Frm	
in	
Incl	
Ind	
Inj	
Int	
Inter	
L	
L.H	
L/D	Light Duty
Lgth	Length
LPG	Liquid Propane Gas
M/D	Medium Duty
M/T	Manual Transmission
Man	Manual
Man. Trans	Manual Transmission
Max	Maximum
Mech	
MFI	Multi-Port Fuel Injection
Min	Minimum
mm	
MPH	
Mtl	Material
N/A	
N/R	
Nat.	
Nat. Asp.	
Neg	
Neut	Noutral
No.	
Nom.	
Norm	
O.A.L	Ovisional Equipment
O.E	
O/D	
O/S	
Obs	
OD	Outside Diameter
OEM Orig	ginal Equipment Manufacturer
OHC	
OHV	
Opt	
Orig	Original
0Z	Ounce

ARREVIATION	
	DESCRIPTION
P. T.O.	
P/S	Power Steering
Pass	Fower Steering
Pass	Passenger
Pc(s)	Piece(s)
PCV Pc	ositive Crankcase Ventilation
Perf	Performance
Pkg	Package
Pos	
Prem	
Pri	
PSI	Filliary
Pwr	
Qtr	Quarter
Qty	Quantity
R.B.P	Ring Below Pin
R.H	Right Hand
Ref	Reference
Reg	Pogular
Reman	Remanutactured
Req'd	Required
Rev	Revision
Rev. Rot	Reverse Rotation
Rlr	Roller
RMB	Rear Main Bearing
Rot	Botation
RotRPM	Povelutions Per Minute
DEIVI	nevolutions Fer ivilliate
Br	Rear
RWD	Rear Wheel Drive
RWDS/CSeal. Rings	Supercharged
Seal. Rings	Sealing Rings
Ser	Serial or Series
Ser. No	Serial Number
SFI	Sequential Fuel Injection
Slv	Oequeritiar i der injection
SOHC	Sieeve
SOHC	Single Overnead Cam
Spd	Speed
Spec	ороба
	SpeedSpecial
Sta.	SpecialStation
Sta	Station
StaStd.	Station Standard
StaStdSys	StationStandardSystem
Sta	Station Standard System Turbocharged
Sta.           Std.           Sys.           T/C.           Tach.	Station Standard System Turbocharged Tachometer
StaStdSysT/CTachTBI	Station Standard System Turbocharged Tachometer
Sta.         Std.         Sys.         T/C.         Tach.         TBI.         Temp.	Station Standard System Turbocharged Tachometer Throttle Body Injection Temperature
Sta.         Std.         Sys.         T/C.         Tach.         TBI.         Temp.         TPI.	Station Standard System Turbocharged Tachometer Throttle Body Injection Temperature Tuned Port Injection
Sta.         Std.         Sys.         T/C.         Tach.         TBI.         Temp.	Station Standard System Turbocharged Tachometer Throttle Body Injection Temperature Tuned Port Injection
Sta.         Std.         Sys.         T/C.         Tach.         TBI.         Temp.         TPI.         Trans.	Station Standard System Turbocharged Tachometer Throttle Body Injection Temperature Tuned Port Injection Transmission
Sta.         Std.         Sys.         T/C.         Tach.         TBI.         Temp.         TPI.         Trans.         Trk.	Station Standard System Turbocharged Tachometer Throttle Body Injection Temperature Tuned Port Injection Transmission Truck
Sta.         Std.         Sys.         T/C.         Tach.         TBI.         Temp.         TPI.         Trans.         Trk.         TTY	Station Standard System Turbocharged Tachometer Throttle Body Injection Temperature Tuned Port Injection Transmission Truck Torque-to-Yield
Sta.         Std.         Sys.         T/C.         Tach.         TBI.         Temp.         TPI.         Trans.         Trk.         TTY.         TURBO.	Station Standard System Turbocharged Tachometer Throttle Body Injection Temperature Tuned Port Injection Transmission Truck Torque-to-Yield Turbocharged
Sta.         Std.         Sys.         T/C.         Tach.         TBI.         Temp.         TPI.         Trans.         Trk.         TTY.         TURBO.         U/S.	Station Standard System Turbocharged Tachometer Throttle Body Injection Temperature Tuned Port Injection Transmission Truck Torque-to-Yield Turbocharged Under Size
Sta.         Std.         Sys.         T/C.         Tach.         TBI.         Temp.         TPI.         Trans.         Trk.         TTY         TURBO.         U/S.         Veh.	Station Standard System Turbocharged Tachometer Throttle Body Injection Temperature Tuned Port Injection Transmission Truck Torque-to-Yield Turbocharged Under Size Vehicle
Sta.         Std.         Sys.         T/C.         Tach.         TBI.         Temp.         TPI.         Trans.         Trk.         TTY         TURBO         U/S.         Veh.         VIN.	Station Standard System Turbocharged Tachometer Throttle Body Injection Temperature Tuned Port Injection Transmission Truck Torque-to-Yield Turbocharged Under Size Vehicle
Sta.         Std.         Sys.         T/C.         Tach.         TBI.         Temp.         TPI.         Trans.         Trk.         TTY         TURBO.         U/S.         Veh.         VIN.       V	Station Standard System Turbocharged Tachometer Throttle Body Injection Temperature Tuned Port Injection Transmission Truck Torque-to-Yield Turbocharged Under Size Vehicle Vehicle Identification Number
Sta.         Std.         Sys.         T/C.         Tach.         TBI.         Temp.         TPI.         Trans.         Trk.         TTY         TURBO         U/S.         Veh.         VIN.	Station Standard System Turbocharged Tachometer Throttle Body Injection Temperature Tuned Port Injection Transmission Truck Torque-to-Yield Turbocharged Under Size Vehicle Vehicle Identification Number
Sta.         Std.         Sys.         T/C.         Tach.         TBI.         Temp.         TPI.         Trans.         Trk.         TTY         TURBO         U/S.         Veh.         VIN.       V         VSS	Station Standard System Turbocharged Tachometer Throttle Body Injection Temperature Tuned Port Injection Transmission Truck Turbocharged Under Size Vehicle Vehicle Identification Number Valve Valve Stem Seal
Sta.         Std.         Sys.         T/C.         Tach.         TBI.         Temp.         TPI.         Trans.         Trk.         TTY         TURBO.         U/S.         Veh.         VIN.       V         VSS.         w/.	Station Standard System Turbocharged Tachometer Throttle Body Injection Temperature Tuned Port Injection Transmission Truck Turbocharged Under Size Vehicle Vehicle Identification Number Valve Valve Stem Seal With
Sta.         Std.         Sys.         T/C.         Tach.         TBI.         Temp.         TPI.         Trans.         Trk.         TTY         TURBO         U/S.         Veh.         VIN.       V         VSS         W/         W/o	Station Standard System Turbocharged Tachometer Throttle Body Injection Temperature Tuned Port Injection Transmission Truck Turbocharged Under Size Vehicle Vehicle Identification Number Valve Valve Stem Seal With Without
Sta.         Std.         Sys.         T/C.         Tach.         TBI.         Temp.         TPI.         Trans.         Trk.         TTY         TURBO.         U/S.         Veh.         VIN.       V         VSS.         w/.	Station Standard System Turbocharged Tachometer Throttle Body Injection Temperature Tuned Port Injection Transmission Truck Turbocharged Under Size Vehicle Vehicle Identification Number Valve Valve Stem Seal With Without Station Wagon



IV



## **FP Diesel Philosophy**

Global Technology Behind Every Part

FP Diesel – part of the Federal-Mogul Engine Systems group – is the industry's leading brand of premium heavy-duty replacement engine parts and gaskets, providing total engine system solutions for such well-known brands as Case, Caterpillar, Cummins, Detroit Diesel, IH/Navistar, John Deere, Komatsu, Mack, Waukesha and White Superior.

Federal-Mogul maintains a steadfast commitment to unsurpassed product quality and customer service. We serve construction, marine, agricultural, mining, gas compression, trucking and industrial markets around the globe. As the global leader in heavy-duty powertrain systems, Federal-Mogul is instrumental in the development of every new generation of gasoline and diesel engine technology. When you choose FP Diesel, you get unparalleled global engineering and manufacturing resources built into every product.

Today's medium and heavy duty commercial markets demand performance. Performance means precision-engineered parts that meet your demanding specifications; and are backed by a team of knowledgeable customer service representatives who can provide technical information and assistance; computerized order and inventory tracking for fast and accurate order fill; unprecedented warranty programs and a company-wide commitment to customer satisfaction.









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### **Manufacturing**

### Global Technology Behind Every Part



Precise manufacturing and fabricating techniques, rigorous quality control procedures, utilization of the latest CAD technology and innovative solutions to industry challenges – coupled with Federal-Mogul's global manufacturing capabilities – have established EP Diesel as the industry leader in

have established FP Diesel as the industry leader in the medium and heavy duty commercial market.

FP Diesel applies stringent quality control procedures with expertly skilled technicians supervising the manufacturing process in all phases to ensure that our parts will perform and last.

FP Diesel is a military approved supplier for the 53 Series Detroit Diesel engine. But the parts we supply for the 53 aren't the only ones that go through government testing. Every FP Diesel part must pass through high-level quality control. Plus, every part is tracked throughout the entire distribution process.

### **Customer Service**

FP Diesel customer service representatives are among the most experienced and knowledgeable in the industry, with handson medium and heavy-duty experience and in-depth knowledge of engine parts and applications. With one call to your



representative you'll have answers to any product, technical, order processing, billing, warranty, pricing, order tracking or availability questions you may have. Customer service that goes the extra mile also means you not only get the parts you need, but expert assistance from a person who knows the market.

Plus, our computerized inventory system allows us to ship orders promptly anywhere in the world, while our easy-to-use cataloging system makes ordering FP Diesel parts fast and simple. For the parts and information you need, count on FP Diesel to go the extra mile.

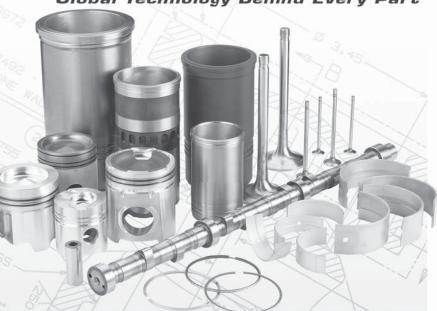




Coverage

Global Technology Behind Every Part

The FP Diesel product offering is a comprehensive line of diesel and natural gas engine replacement parts that provide all the coverage necessary to meet your heavy-duty engine rebuilding needs. FP Diesel also offers a full line of gaskets and elastomeric products. For more specific information, please refer to our full-line catalogs, which are engine and machine specific and follow OEM format. To ensure exact part number replacement. these catalogs reference OEM part numbers and features technical information relating to the specific



### **Products and Catalogs**

#### Caterpillar

engine being serviced.

Replacement Caterpillar products cover 3200, 3300, 3400, 3500, D Series and G Series engines. This coverage extends from cylinder heads, fuel injection, cam and crankshafts, cylinder kits, valvetrain and eletrical to engine bearings, transmission, hydraulic gasket sets and more. Refer to FP Diesel catalog No. CA0010 (parts) and CA0020 (gaskets).

#### **Cummins**

FP Diesel provides replacement parts coverage for V378, V504, V555, Small Vee Engines, V/VT 903, 855 Series, N14, L10, B Series, C Series, V/VT1710, N743 and K/KTA 19-, 38- and 50-liter engines, as well as components for Jacobs® brakes. Refer to FP Diesel catalog No. CA0030.

#### **Detroit Diesel**

FP Diesel offers the most complete coverage in the replacement parts industry for Detroit Diesel, with an extensive line of components and kits for the 8.2-liter, 53 Series, 60 Series, 71 Series, 92 Series and 149 Series engines. Refer to FP Diesel catalog No. CA0040 for 2-cycle engines or FP Diesel catalog No. CA0045 for 4-cycle engines.

FP Diesel offers a broad range of in-frame and complete overhaul kits and related components for 300 Series, 400 Series, 500 Series and Powertech engines. Refer to FP Diesel catalog No. CA0085.

#### Komatsu

Extensive coverage for Komatsu S6D155 and SA6D155 engines, as well as a full line of replacement parts for Komatsu machines using Cummins N743, KT/KTA 19-, 38- and 50-liter engines, and the Cummins 855. Refer to FP Diesel catalog No. CA0085.

#### Mack

FP Diesel has a broad line for Mack, early ENDT 675 and 676 engines, as well as parts for later EM6 with both two- and four-valve head configurations. Refer to FP Diesel catalog No. CA0060.

#### International/Navistar

International coverage extends from the 6.9 and 7.3 liter, DT-360 and DT-466 through the 9.0 liter engine. Refer to FP Diesel catalog No. CA0050. For agricultural applications, FP Diesel also services the DT-414 and DT-436 Case/I.H. engines. For industrial and agricultural applications, refer to FP Diesel catalog No. CA0188.

FP Diesel has a complete range of kits and components for the 188, 207, 301, 366, 451 and 504-Case engines along with the 4-390 & 4T-390, 6-590 & 6T-590, 6T-830 & 6TA-830, LTA 10 and NTA 855 B/C III Cummins engines. Refer to FP Diesel catalog No. CA0095.

Commercial, Ag, Industrial Engines
The FP Diesel CA0188 catalog includes all the engine manufacturers not covered in the FP Diesel name-plate specific catalogs. Replacement engine components for Allis-Chalmers, Bedford, Bendix-Westinghouse, Briggs & Stratton, Buda, Case Tractor, Chevrolet MD Truck, Climax, Continental, Dodge MD Truck, Ford Tractor, GMC MD Truck, Hercules, IHC Tractor, Isuzu Forklift, KHD, Kohler, LeRoi, Massey Ferguson, Mercedes, Mazda Forklift, Minneapolis-Moline, Mitsubishi, Novo, Oliver, Perkins, Superior, Thermo-King, Volvo, Waukesha, White and Wisconsin are included in the FP Diesel CA0188 catalog.





### **Heavy Duty Pistons**

### Global Technology Behind Every Part

FP Diesel heavy duty pistons are designed and produced for severe operating conditions. Federal-Mogul is one of the world's leading manufacturers of heavy duty pistons offering one and two-piece designs including aluminum, articulated, cast iron and steel materials. For severe and high load applications, FP Diesel pistons include a metallurgically bonded NI-resist insert in the top and in some cases, the second ring groove. The NI-resist insert minimizes groove wear and reduces pound-out from the compression ring. Anodized heads and graphite-coated skirts offer additional durability in severe applications. Federal-Mogul also utilizes an in-house, patented magnesiumphosphate coating to reduce the piston

corrosion caused by high-sulfate diesel fuels and break-in wear on problematic applications.

We design our heavy duty pistons using the latest in computer aided design (CAD) software. Each application is thoroughly researched to ensure the proper dimensional and metallurgical requirements. And since we also design and manufacture cylinder liners and piston rings, our engineers can make sure each piston we develop provides optimum performance as part of the "power-cylinder" system.



VIII



**Piston Rings** 

### Global Technology Behind Every Part

FP Diesel offers a broad range of piston rings that dominate the industry with technically advanced design, dedicated research and superior quality. Our rings minimize cylinder leakage under true operating conditions, and provide maximum oil control.

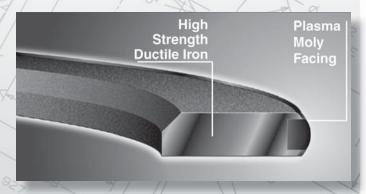
#### **Top Ring**

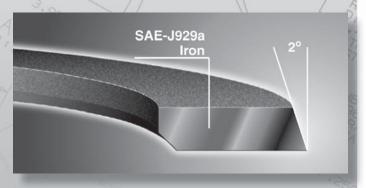
FP Diesel top rings provide reliable compression sealing and maximum power output, and control "blow-by." They are engineered for instant seating, superior cylinder sealing and optimum durability. We offer cast iron, high strength ductile iron, and steel material choices. All premium ring sets feature moly, chrome or plasma-moly facings for enhanced performance under demanding conditions. The inherent strength of our materials provides sealing integrity at extreme pressures and RPM. We supply rings for all popular applications: including medium and heavy duty, agricultural and high performance.

### **Second Ring**

Second rings are manufactured from SAE-J929a iron to provide excellent durability and superior oil control. The primary function of the second ring is oil control. Our tapered face design makes this ring work as a "scraper," reducing the potential for oil migration into the combustion chamber

The race-proven gap design creates an escape path for residual combustion gases, reducing inter-ring pressure and keeping the top ring seated against its groove. Without this escape path, trapped pressure will unseat the top ring, causing ring flutter and reduced cylinder seating at high RPM. Our one-piece second rings are far more effective and reliable than competitive designs which attempt to retain combustion pressure lost through ineffective top rings. Beware: cylinder leakage tests are steady-state; they do not account for time, piston movement or true operating pressures.









### **Engine Bearings**

Global Technology Behind Every Part

### **Engine Bearing Material Selection**

When selecting engine bearings, most rebuilders concentrate on getting the proper clearances and maintaining adequate oil pressure. Durability is expected from any bearing chosen, and the advantages of different bearing materials may not be considered. If engine operating conditions are considered and bearing materials chosen accordingly, the likelihood of engine longevity is greater. No single material can be correct for every application. FP Diesel engine bearings are equal to or better than the

original equipment specifications for material and design. We also provide alternatives to address unique problems and special needs.

In heavy duty applications there are a number of materials that will do an excellent job. Each alloy has advantages in terms of resistance to corrosion, rate of wear and fatigue strength. The latter characteristic is critical in engines that operate under high loads, generate considerable heat and may be subjected to occasional detonation.

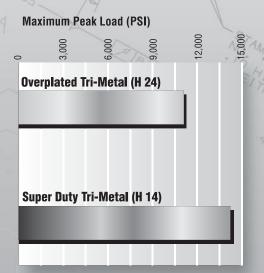
### Bi-Metal Aluminum Alloys - Plated and Unplated

Diesel fuels, moisture, and engine "blow-by" introduce many contaminants into the crankcase. Aluminum engine bearing materials provide outstanding resistance to the corrosive effects of these substances, and are the product of choice for most current original equipment vehicle manufacturers. The modern bi-metal aluminum engine bearing contains silicon. As a result of using silicon, the alloy resists seizure and dramatically reduces or

eliminates bearing wear. This contributes to today's extended engine life. Aluminum is often the best material for a daily driven vehicle. Adding an overplate to an aluminum engine bearing will further enhance embedability and conformability. Continued efforts to remove lead from our environment guarantee that aluminum will become the preferred engine bearing material for most applications.

## **Tri-Metal Alloys**

Tri-Metal engine bearings, such as our H-14 and H-24 alloys, have excellent fatigue resistance, but are less resistant to corrosion damage than aluminum bearings. These bearing materials are accepted by engine builders worldwide, and are proven to be reliable in a wide range of uses. While OE manufacturers are moving to aluminum for their needs, many rebuilders still specify the tri-metal bearings for older engines.







### Global Technology Behind Every Part

The FP Diesel Engine Kit program allows you to select a kit tailored to the job at hand. Whether performing a complete overhaul or in-frame repair, FP Diesel engine kits contain all the necessary components to complete the rebuild job. This comprehensive program provides you with the following:

- Concise application information
- One price look-up
- A full complement of oversizes and undersizes
- Master kits that include full gasket sets

### **How To Specify FP Diesel Engine Kits**





### **Warranty**

#### Global Technology Behind Every Part

The products listed in this catalog are warranted to be free from defects in material and workmanship, under normal use and service, for two years from date of installation in an engine, without mileage or hour qualification in accordance with the following limited warranty. This warranty is the sole and exclusive warranty for failure of the above parts. This exclusive remedy shall not be deemed to have failed of its essential purpose so long as Federal-Mogul is willing and able to provide the remedy provided below.

#### **WARRANTY LIMITATIONS**

Federal-Mogul agrees to only pay for parts and labor needed to repair engine damages that result from the defined warranty failure. The costs are limited to parts and labor necessary for restoring the engine to its condition immediately prior to the failure. Labor costs are determined by current published rates and standards in the geographic area in which repairs are performed. Overtime or holiday rate charges are not allowed. We will also pay for maintenance products such as oil, antifreeze, belts, hoses and filter elements that are damaged because of a defined warranty failure.

Federal-Mogul is not responsible for engine failure resulting from owner, operator or third party neglect or abuse, improper installation or repair procedures, alteration or misapplication of parts, failure to properly service or maintain the engine and vehicle in accordance with applicable OEM operation and maintenance manuals or use in engine modified for competition purposes or used in competition.

OTHER THAN AS EXPRESSLY PROVIDED HEREBY, FEDERAL-MOGUL SHALL NOT, UNDER ANY CIRCUMSTANCES, BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, DAMAGE OR LOSS OF OTHER PROPERTY OR EQUIPMENT, LOSS OF PROFITS OR REVENUE, TRANSPORTATION AND TOWING COSTS, COST OF PURCHASED OR REPLACED GOOD, OR CLAIMS OF CUSTOMERS OF THE PURCHASER, WHICH MAY ARISE OR RESULT FROM THE SALE, INSTALLATION, OR USE OF THESE PARTS. Some jurisdictions do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages, so the limitations or exclusions contained herein may or may not apply to you. This warranty gives you specific legal rights. You may also have other rights depending on the state or province in which you reside.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS AND/OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE AND THEY ARE EXCLUDED TO THE EXTENT THEY EXCEED THE WARRANTY COVERAGE DESCRIBED BY THIS WARRANTY.

This warranty and remedy apply to new FP Diesel engine parts from Federal-Mogul sold directly to our authorized aftermarket customers as evidenced by completed claim documentation.

No agent or sales representative of Federal-Mogul Corporation has the authority to modify this warranty.

Other Federal-Mogul parts may carry different warranties.

Federal-Mogul must be notified by the customer: (i) before filing a warranty claim, (ii) within one year of the date that the claim accrues, and (iii) before any work has been performed. All claims must be submitted in writing and Federal-Mogul reserves the right to examine all parts, systems and related information associated with the claim. (Note all shipping charges are the responsibility of the end-user or distributor, Federal-Mogul will not accept collect shipments). See your sales representative for detailed claim submission procedures and forms.

Use parts only for applications and interchanges in this catalog.

Failure to heed this warning could result in reduced life or failure of the part. All parts listed in this catalog are not for use in space program, atomic energy/nuclear reactor equipment, medical or aircraft applications. Federal-Mogul reserves the right to make product improvements/changes, with respect to similar products previously manufactured, without notice and without incurring liability.





#### Global Technology Behind Every Part

Les produits indiqués dans ce catalogue sont garantis contre toute défectuosité de matériel et de fabrication, dans des conditions d'utilisation et d'entretien normales, sur une période de deux ans à partir de la date d'installation dans un moteur, sans qualification de kilométrage ou horaire, conformément à la garantie limitée suivante.

Cette garantie est la garantie unique et exclusive pour la défaillance des pièces précitées.

Ce recours exclusif ne doit pas être présumé comme ayant échoué à son objectif essentiel, tant que Federal-Mogul approuve et est capable de fournir le recours fourni ci-dessous.

#### LIMITATIONS DE GARANTIE

Federal-Mogul accepte uniquement de payer les pièces et la main-d'œuvre nécessaires pour réparer les dommages de moteur qui résultent de la défaillance de la garantie définie. Les coûts sont limités aux pièces et à la main-d'œuvre nécessaires pour la restauration du moteur à l'état auquel il se trouvait juste avant la défaillance.

Les frais de main-d'œuvre sont déterminés par les prix et normes publiés à l'heure actuelle dans la zone géographique dans laquelle les réparations sont effectuées. Les heures supplémentaires ou les frais de jours fériés ne sont pas permis. Nous payons également les produits d'entretien, tels que l'huile, l'antigel, les courroies, les tuyaux et les éléments de filtre qui sont endommagés en raison d'une défaillance de garantie définie.

Federal-Mogul décline toute responsabilité pour une défaillance de moteur découlant d'une négligence ou d'un abus infligés par le propriétaire, l'opérateur ou une tierce partie, de procédures d'installation ou de réparations incorrectes, de l'altération ou d'une application incorrecte de pièces, d'un manque de réparation ou d'entretien adéquat du moteur et du véhicule conformément aux manuels d'utilisation et d'entretien OEM applicables, ou de l'utilisation dans un moteur modifié à des fins de compétition ou utilisé en compétition.

SAUF SUR SPÉCIFICATION EXPRESSE DANS LA PRÉSENTE, FEDERAL-MOGUL NE SERA RESPONSABLE, EN AUCUNE CIRCONSTANCE, POUR DES DOMMAGES SPÉCIAUX, INDIRECTS.

ACCESSOIRES OU CONSÉCUTIFS, Y COMPRIS, SANS S'Y LIMITER, DES DOMMAGES OU LA PERTE D'UNE AUTRE PROPRIÉTÉ OU D'UN AUTRE ÉQUIPEMENT, LA PERTE DE PROFITS OU DE REVENUS, LES FRAIS DE TRANSPORT ET DE REMORQUAGE, LES FRAIS DE BIENS ACHETÉS OU REMPLACÉS, OU LES DEMANDES DE CLIENTS DE L'ACHETEUR, QUI PEUVENT SE PRÉSENTER OU RÉSULTER DE LA VENTE, DE L'INSTALLATION OU DE L'UTILISATION DE CES PIÈCES.

Certaines juridictions ne permettent pas les limites sur la durée d'une garantie implicite, ni l'exclusion ou la limitation de dommages accessoires ou consécutifs, et, par conséquent, les limitations ou exclusions ci-incluses peuvent s'appliquer ou non pour votre cas. Cette garantie vous octroie des droits légaux spécifiques.

Vous disposez également d'autres droits en fonction de l'état ou de la province de votre résidence.

LA PRÉSENTE GARANTIE REMPLACE TOUTES AUTRES GARANTIES, EXPRESSES ET/OU IMPLICITES,
Y COMPRIS, SANS S'Y LIMITER, LES GARANTIES DE QUALITÉ MARCHANDE OU D'ADAPTATION À UN USAGE
PARTICULIER, ET ELLES SONT EXCLUES SI ELLES DEVAIENT DÉPASSER LA COUVERTURE DE GARANTIE
DÉCRITE PAR LA PRÉSENTE GARANTIE.

Cette garantie et le recours s'appliquent aux nouvelles pièces du moteur diesel FP de Federal-Mogul vendu directement à nos clients de pièces de rechange autorisés, tel qu'attesté par les documents de demande dûment remplis. Aucun agent ou représentant de ventes de Federal-Mogul Corporation ne dispose du droit de modifier la présente garantie. D'autres pièces de Federal-Mogul peuvent être couvertes par des garanties différentes.

#### PROCÉDURES DE DEMANDE

Le client doit notifier Federal-Mogul : (i) avant de remplir une demande au titre de la garantie, (ii) en l'espace d'un an à partir de la date à laquelle la demande est exercée, et (iii) avant l'exécution d'un travail quelconque. Toutes les demandes doivent être soumises par écrit et Federal-Mogul se réserve le droit d'examiner toutes les pièces, tous les systèmes et toutes les informations associées à la demande.

(Veuillez noter que l'utilisateur final ou le distributeur est responsable pour tous les frais d'expédition; Federal-Mogul n'accepte aucun envoi en port-dû). Veuillez consulter votre représentant des ventes pour les formulaires et les procédures de soumission de demande détaillés.

#### **AVERTISSEMENT**

Utilisez uniquement les pièces pour les applications et les échanges de ce catalogue.

Un manque de respect de cet avertissement pourrait résulter en une durée de vie réduite ou une défaillance de la pièce. Aucune des pièces indiquées dans ce catalogue n'est destinée à être utilisée dans un programme d'espace, pour du matériel de réacteur nucléaire/d'énergie atomique, ou des applications médicales ou d'aéronefs.

Federal-Mogul se réserve le droit d'effectuer des améliorations/changements de produits, en ce qui concerne des produits similaires fabriqués auparavant, sans avis et sans assumer de responsabilité.





### Global Technology Behind Every Part

Se garantiza que todos los productos presentados en este catálogo no presentaran defecto alguno, ya sea en su material ni en su fabricación, bajo condiciones de uso y servicio normales. La garantía es de dos años de la fecha de la instalación en el motor, sin límites en el kilometraje o en las horas de funcionamiento. Esta es la única y exclusiva garantía si alguna de las partes listadas fuese a fallar. Este recurso exclusivo no se tomará como una falta, siempre y cuando Federal Mogul pueda remediarlo con las provisiones enumeradas mas abajo.

#### LIMITACIONES DE LA GARANTIA

Federal-Mogul pagará solo por las partes y la mano de obra necesarias para reparar daños al motor que resulten de una falla definida sobre la parte vendida. Los costos quedarán limitados a las partes y la mano de obra necesarias para restaurar el motor a la condición en la cual se encontraba inmediatamente antes de la falla. Los costos de la mano de obra se determinarán por medio de precios publicados y estándares del área geográfica en la cual las reparaciones se lleven a cabo. No se permitirá agregar costos de tiempo extra ni por trabajo durante días festivos. Pagaremos por productos de mantenimiento tales como aceite, anti-congelantes, correas, mangueras y filtros dañados debido a alguna falla definida del producto vendido.

Federal-Mogul no se hará responsable por una falla de motor causada por el dueño, operador o un tercero, ya sea por su propia negligencia, abuso o instalación inadecuada o procedimientos de reparación inadecuados, por alteración o aplicación incorrecta de las partes, falta de servicio necesario o mantenimiento del motor o de el vehículo de acuerdo a los manuales de operación y mantenimiento de acuerdo fabricante original, o por la modificación de un motor para su uso en competencias o por haber sido usado en competencias.

FEDERAL-MOGUL NO SERÁ RESPONSABLE, BAJO NINGUNA CIRCUNSTANCIA, OTRO QUE NO SEA LO QUE SE HA MENCIONADO EXPLÍCITAMENTE EN ÉSTA GARANTÍA, POR CUALQUIER DAÑO INDIRECTO, ESPECIAL, ACCIDENTAL O CÓMO CONSECUENCIA DE OTROS DAÑOS, INCLUYENDO, PERO SIN QUE QUÉDE LIMITADO A DAÑOS O PÉRDIDAS DE BIENES O DE EQUIPO, PÉRDIDA DE GANANCIAS O INGRESOS, COSTOS DE GRÚA O TRANSPORTACIÓN, DE PARTES REEMPLAZADAS, O RECLAMOS DE CLIENTES DEL COMPRADOR, QUE PUEDAN RESULTAR DE LA VENTA, INSTALACIÓN, O USO DE ÉSTAS PARTES.

Algunas jurisdicciones no permiten limitaciones con respecto a la duración de garantías implícitas, o a la exclusión o limitación de daños accidentales, por lo tanto puede que las limitaciones o exclusiones contenidas en el presente no le apliquen a Ud. Esta garantía le ofrece derechos específicos. Ud. puede gozar de derechos adicionales dependiendo del estado o provincia en la cual viva.

ÉSTA GARANTIA REEMPLAZARA CUALQUIER Y TODA OTRA GARANTÍA, YA SEA EXPLÍCITA U IMPLÍCITA, INCLUYENDO, PERO NO LIMITANDOSE A GARANTÍAS PARA LA MERCANCÍA Y USO DE LA MISMA CON UN PROPÓSITO EN PARTICULAR, Y ESAS MISMAS QUEDARAN EXCLUIDAS SI EXCEDEN LA COBERTURA DESCRITA EN ÉSTA GARANTÍA.

Ésta garantía y recurso aplican a partes nuevas de motores de FP Diésel, vendidas directamente a nuestros clientes autorizados del mercado de reposición, lo cual será corroborado por medio de documentación usada en el reclamo. Ningún agente o representante de la empresa Federal-Mogul tiene autoridad para modificar ésta garantía.

Otras partes de Federal-Mogul pueden tener garantías diferentes.

#### PROCEDIMIENTO PARA PRESENTAR UN RECLAMO

Federal-Mogul debe ser notificado por el cliente: (i) antes de presentar un reclamo cubierto en la garantía, (ii) dentro del plazo de un año de ocurrida la falla, y (iii) antes de que se haya hecho algún trabajo.

Todo reclamo debe ser entregado por escrito y Federal-Mogul reserva el derecho a examinar todas las partes, sistemas e información relacionados y asociados al reclamo. (Todo cargo de envío será responsabilidad del usuario final o distribuidor, Federal-Mogul no aceptará envíos a cobrar). Contacte a su representante de ventas para conseguir el formulario de reclamos con el procedimiento detallado.

#### **ADVERTENCIA**

Las partes deben ser usadas sólo para las aplicaciones mencionadas en éste catálogo. El no seguir ésta advertencia puede que resulte en que le falle la parte o a que su vida quede reducida. Todas las partes listadas en éste catálogo no están hechas para el uso en programas espaciales, para equipos de energía atómica, o reactores nucleares, o para aplicaciones médicas ni en naves aéreas. Federal-Mogul se reserva el derecho de hacerle mejoras y cambios a los productos, con respecto a productos similares que se hayan fabricado previamente, sin notificación o responsabilidad legal alguna.





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7.00 IBBT Excavator	Bore57	TOD 0.0 TYTIOOT CINICACT	Turbo-Diesel L6 102mm Bore (24	4
A504BDT Concrete			Valve) (Cummins Eng.)	
Placer	8.3L 504 Turbo-Diesel L6 4.625"	IXF3 Combine	1.6L 95 L-HEAD L4 2.75" Bore	
A6 254 Who at Treater	Bore	IVC Combine	(Hercules Eng.)4.6L 282 L-HEAD L6 3.75" Bore	3
AO.334 VVIIEEI I ractor	5.8L 354 OHV Diesel L6 3.875" Bore (12 Valve) (Perkins Eng.) 43	JAC Combine	4.6L 282 L-HEAD L6 3.75" Bore (Hercules Eng.)	
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FK Wheel Tractor	2.2L 133 L-HEAD L4 3.25" Bore	NTC400 Wheel Tractor	14.0L 855 OHV Turbo-Diesel L6	
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I K COITIDITIE	Eng.)10	God 5.9 Gladel	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (24	4
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	Eng.)10	QSB 5.9 Compactor	5.9L 359 (5882cc) OHV	
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. 102 WIIIOOI Hactor	(Continental Eng.)18	QSB 6.7 Wheel Tractor		55
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	Turbo-Diesel L6 125mm Bore (24		2.4L 148 L4 3.375" Bore (G148		
QSM 10.8 Wheel Loader.	Valve) (Cummins Eng.)	148G Wheel Tractor	2.4L 148 L4 3.375" Bore (G148 2.6L 159 L4 3.5" Bore	17	
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VE4 Hay Baler	1.5L 91.9 L-HEAD V4 3" Bore		3.1L 188 Diesel L4 3.8125" Bor		
•	(\A/i = = = = i = F = = )	188 Windrower	3.1L 188 Diesel L4 3.8125" Bor	re 22	
VE4 Combine	1.5L 91.9 L-HEAD V4 3" Bore		3.1L 188 Diesel L4 3.8125" Bor		
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•	(Wisconsin Eng.) 4		3.4L 207 Diesel L4 4" Bore		
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	(Wisconsin Eng.) 4		3.4L 207 Diesel L4 4" Bore		
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VE4D Combine	(Wisconsin Eng.) 4 1.8L 108 L-HEAD V4 3.25" Bore		3.4L 207 Diesel L4 4" Bore 4.1L 251 L4 4" Bore		
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•	(Wisconsin Eng.) 4		4.7L 284 L4 4.25" Bore		
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	Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.) 45	OVZTO Compactor	. 5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (24
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	Turbo-Diesel L6 114mm Bore (24		. 5.5L 336 Diesel L4 4.625" Bore 41
	Valve) (Cummins Eng.) 58	1B336 Concrete Placer	. 5.5L 336 Diesel L4 4.625" Bore 41



Model Index				
Model	Engine Description No.	Model	Engine Description No	
TB336 Concrete Placer	5.5L 336 Turbo-Diesel L4 4.625"	W14H Articulated Loader		
	Bore42	Wheel Loader	5.5L 336 Turbo-Diesel L4 4.625"	
TB80 Concrete Placer	8.3L 504 Diesel L6 4.625" Bore 56		Bore4	
TB80 Concrete Placer	8.3L 504 Turbo-Diesel L6 4.625"	W18 Wheel Loader	6.6L 401 Diesel L6 4.125" Bore 5	
	Bore57	W18 Wheel Loader	6.6L 401 Turbo-Diesel L6 4.125"	
T336 Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore 41		Bore 5	
	5.5L 336 Diesel L4 4.625" Bore 41	W18 Articulated Loader		
	5.5L 336 Turbo-Diesel L4 4.625"		6.6L 401 Diesel L6 4.125" Bore 5	
1000 Concrete i lacei	Bore42	W18 Articulated Loader	0.02 401 Diesei 20 4.125 Doie 0	
T90 Concrete Placer	8.3L 504 Diesel L6 4.625" Bore 56		6.6L 401 Turbo-Diesel L6 4.125"	
	8.3L 504 Diesei L6 4.625 Bore 56 8.3L 504 Turbo-Diesel L6 4.625"	vvneer Loader		
180 Concrete Placer	8.3L 504 Turbo-Diesei L6 4.625	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Bore	
	Bore		6.6L 401 Diesel L6 4.125" Bore 5	
U Combine	1.8L 108 L-HEAD V4 3.25" Bore	W20 Wheel Loader	6.6L 401 Turbo-Diesel L6 4.125"	
	(Wisconsin Eng.) 4		Bore 5	
U Combine	2.1L 124 L4 3.25" Bore 6	W20 Articulated Loader		
U Combine	1.5L 91.9 L-HEAD V4 3" Bore	Wheel Loader	6.6L 401 Diesel L6 4.125" Bore 5	
	(Wisconsin Eng.) 2	W20 Articulated Loader		
V Wheel Tractor	2.1L 124 L-HEAD L4 3" Bore		6.6L 401 Turbo-Diesel L6 4.125"	
	(Continental Eng.)5		Bore5	
		WOOR Wheel Leader	6.6L 401 Diesel L6 4.125" Bore 5	
	2.1L 124 L4 3.25" Bore			
	2.1L 124 L4 3.25" Bore 6	vv∠∪b vvneei Loader	6.6L 401 Turbo-Diesel L6 4.125"	
	2.1L 124 L4 3.25" Bore 6	l	Bore 5	
	2.1L 124 L4 3.25" Bore 6	W20B Articulated Loader		
	2.1L 124 L4 3.25" Bore 6	Wheel Loader	6.6L 401 Diesel L6 4.125" Bore 5	
VAI Wheel Tractor	2.1L 124 L4 3.25" Bore 6	W20B Articulated Loader		
VAO Wheel Tractor	2.1L 124 L4 3.25" Bore 6	Wheel Loader	6.6L 401 Turbo-Diesel L6 4.125"	
	2.1L 124 L4 3.25" Bore 6		Bore 5	
	2.1L 124 L-HEAD L4 3" Bore	W20C Wheel Tractor	8.3L 504 Diesel L6 4.625" Bore 5	
			8.3L 504 Diesel L6 4.625" Bore 5	
// \\//// Tu+	(Continental Eng.) 5 2.1L 124 L-HEAD L4 3" Bore			
vi vvneei iractor	2.1L 124 L-HEAD L4 3" Bore	VV24 vvneei Loader	8.3L 504 Turbo-Diesel L6 4.625"	
	(Continental Eng.)5		Bore 5	
VO Wheel Tractor	2.1L 124 L-HEAD L4 3" Bore		8.3L 504 Diesel L6 4.625" Bore 5	
	(Continental Eng.)5	W24B Wheel Loader	8.3L 504 Turbo-Diesel L6 4.625"	
V2 Combine	4.6L 282 L-HEAD L6 3.75" Bore		Bore 5	
	(Hercules Eng.)35	W24C Wheel Loader	8.3L 504 Diesel L6 4.625" Bore 5	
WA106 Wheel Tractor	2.1L 124 L4 3.25" Bore 6		8.3L 504 Turbo-Diesel L6 4.625"	
	5.0L 301 Diesel L4 4.375" Bore 39		Bore5	
	6.6L 401 Diesel L6 4.125" Bore 51	W26 Wheel Tractor	2.1L 126 L4 3.125" Bore	
W10 Wheel Leader	6.6L 401 Diesel L6 4.125" Bore 51		8.3L 504 Diesel L6 4.625" Bore 5	
	6.6L 401 Diesel L6 4.125" Bore 51		8.3L 504 Dieser Lo 4.025 Bore 6	
		VVZOD VVIIEEI LOAUEI		
	6.6L 401 Diesel L6 4.125" Bore 51	1440	Bore	
W10E Wheel Loader	6.6L 401 Turbo-Diesel L6 4.125"		3.1L 188 Diesel L4 3.8125" Bore 2	
	Bore52		3.1L 188 Diesel L4 3.8125" Bore 2	
W11 Articulated Loader			3.1L 188 Diesel L4 3.8125" Bore 2	
Loader	3.4L 207 Diesel L4 4" Bore 23	W36 Wheel Loader	8.3L 504 Diesel L6 4.625" Bore 5	
W11B Wheel Tractor	3.9L 239 (3921cc) OHV Diesel L4	W36 Wheel Loader	8.3L 504 Turbo-Diesel L6 4.625"	
	102mm Bore (Cummins Eng.) 26		Bore5	
W11B Wheel Tractor		W36 Wheel Loader		
	Turbo-Diesel L4 102mm Bore		Turbo-Diesel L6 114mm Bore	
	(Cummins Eng.)		(Cummins Eng.)5	
W12 Wheel Loader	6.6L 401 Diesel L6 4.125" Bore 51	W5 Wheel Loader	3.1L 188 Diesel L4 3.8125" Bore 2	
	5.5L 336 Diesel L4 4.625" Bore 41	W5A Wheel Tractor		
		VVOA VVIIEEI TTACIOT		
v 14 vvrieei Loader	5.5L 336 Turbo-Diesel L4 4.625"	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(G188B)	
A	Bore42		3.1L 188 Diesel L4 3.8125" Bore 2	
W14 Articulated Loader			3.1L 188 Diesel L4 3.8125" Bore 2	
Wheel Loader	5.5L 336 Diesel L4 4.625" Bore 41		3.1L 188 Diesel L4 3.8125" Bore 2	
V14 Articulated Loader		W7 Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore 2	
Wheel Loader	5.5L 336 Turbo-Diesel L4 4.625"	W7 Wheel Loader	5.0L 301 Diesel L4 4.375" Bore 3	
	Bore42		3.1L 188 Diesel L4 3.8125" Bore 2	
W14B Wheel Tractor	5.9L 359 (5882cc) OHV Diesel L6		5.0L 301 Diesel L4 4.375" Bore 3	
	102mm Bore (Cummins Eng.) 44	W7C (4WD) Wheel	5.52 551 515551 27 7.075 5016 0	
V14B Wheel Tractor	5 OL 350 (588300) OUV		5.0L 301 Diesel L4 4.375" Bore 3	
v 140 vviieei Hacioi				
	Turbo-Diesel L6 102mm Bore (12		3.1L 188 Diesel L4 3.8125" Bore 2	
	Valve) (Cummins Eng.) 45		5.0L 301 Diesel L4 4.375" Bore 3	
W14C Wheel Tractor	5.9L 359 (5882cc) OHV Diesel L6		6.6L 401 Diesel L6 4.125" Bore 5	
	102mm Bore (Cummins Eng.) 44	W8 Wheel Tractor	6.6L 401 Turbo-Diesel L6 4.125"	
W14C Wheel Tractor	5.9L 359 (5882cc) OHV		Bore5	
	Turbo-Diesel L6 102mm Bore (12	W8B Wheel I gader	6.6L 401 Diesel L6 4.125" Bore 5	
	Valve) (Cummins Eng.) 45		6.6L 401 Diesel L6 4.125" Bore 5	
M14H Whool Loodor			6.6L 401 Diesel L6 4.125 Bore 5	
/v i +i i vviieei Luauei	5.5L 336 Diesel L4 4.625" Bore 41			
vv 14 m vvrieei Loader	5.5L 336 Turbo-Diesel L4 4.625"	vvoc vviieei Loader	6.6L 401 Turbo-Diesel L6 4.125"	
	Bore 42		Bore 5	
			4.4L 267 Diesel L4 4.125" Bore 3	



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Model	Engine Description Line No.	Model	Engine Description No.	
	. 4.4L 267 Diesel L4 4.125" Bore 32	1085B Excavator		
W9 Wheel Tractor	. 6.6L 401 Diesel L6 4.125" Bore 51		Turbo-Diesel L6 102mm Bore (12	
	. 6.6L 401 Diesel L6 4.125" Bore 51		Valve) (Cummins Eng.) 45	
W9 Wheel Tractor	. 6.6L 401 Turbo-Diesel L6 4.125"	1085C Excavator		
MO (4MD) ME	Bore		Turbo-Diesel L6 102mm Bore (12	
	. 6.6L 401 Diesel L6 4.125" Bore 51	1086B Excavator	Valve) (Cummins Eng.)	
W9 Unit Loader Wheel	. 6.6L 401 Diesel L6 4.125" Bore 51	1086B Excavator		
	.5.0L 301 Diesel L4 4.375" Bore 39		Turbo-Diesel L6 102mm Bore (12 Valve) (Cummins Eng.) 45	
	. 4.7L 284 L4 4.25" Bore 36	1086C Excavator		
	. 6.6L 401 Diesel L6 4.125" Bore 51	1000C Excavator	Turbo-Diesel L6 102mm Bore (12	
	. 6.6L 401 Diesel L6 4.125" Bore 51		Valve) (Cummins Eng.) 45	
W9C Wheel Loader	. 6.6L 401 Diesel L6 4.125" Bore 51	1090 Wheel Tractor	7.4L 451 Diesel L6 4.375" Bore 54	
W9C (4WD) Wheel		1090 Agri King Wheel		
Loader	. 6.6L 401 Diesel L6 4.125" Bore 51	Tractor	7.4L 451 Diesel L6 4.375" Bore 54	
	. 6.6L 401 Diesel L6 4.125" Bore 51	110 Combine	2.1L 124 L4 3.25" Bore 6	
	. 6.6L 401 Diesel L6 4.125" Bore 51	1140 Wheel Tractor	2.6L 159 L4 3.5" Bore 17	
W9E Wheel Tractor	. 6.6L 401 Turbo-Diesel L6 4.125"		3.1L 188 Diesel L4 3.8125" Bore 22	
	Bore52		2.6L 159 L4 3.5" Bore 17	
W9E Wheel Loader	. 6.6L 401 Turbo-Diesel L6 4.125"		3.1L 188 Diesel L4 3.8125" Bore 22	
	Bore52		6.6L 401 Diesel L6 4.125" Bore 51	
	. 4.4L 267 Diesel L4 4.125" Bore 32	1150 Crawler Tractor	6.6L 401 Turbo-Diesel L6 4.125"	
	. 4.7L 284 L4 4.25" Bore	4450D O	Bore	
1000 Combine	. 4.9L 298 OHV L6 3.75" Bore		7.4L 451 Diesel L6 4.375" Bore 54	
1000 Combine	(Hercules Eng.)	1150C Crawler Tractor	7.4L 451 Diesel L6 4.375" Bore 54	
	.5.0L 301 L4 4.375 Bore 30	T150E Clawler Tractor	Turbo-Diesel L6 102mm Bore (12	
1000 Combine	.5.2L 318 OHV V8 3.9063" Bore		Valve) (Cummins Eng.)	
		1150E Crawler Tractor		
1000 Rice Combine	(Chrysler Eng.)	11002 Glawler Tradier	Turbo-Diesel L6 114mm Bore	
	. 4.9L 298 OHV L6 3.75" Bore		(Cummins Eng.)59	
	(Hercules Eng.)	1150G Crawler Tractor		
1000 Rice Combine	. 5.0L 301 Diesel L4 4.375" Bore 39		Turbo-Diesel L6 102mm Bore (12	
1000 Rice Combine	. 5.2L 318 OHV V8 3.9063" Bore		Valve) (Cummins Eng.)45	
	(Chrysler Eng.) 40		2.6L 159 L4 3.5" Bore 17	
1010 Combine	. 4.5L 273 OHV V8 3.625" Bore		3.1L 188 Diesel L4 3.8125" Bore 22	
	(Chrysler Eng.)	1155E Crawler Tractor		
	. 4.7L 284 L4 4.25" Bore		Turbo-Diesel L6 102mm Bore (12	
	. 4.9L 298 OHV L6 3.75" Bore	11555 Cravilar Tractor	Valve) (Cummins Eng.)	
	(Hercules Eng.)	1155E Crawler Tractor	Turbo-Diesel L6 114mm Bore	
	.5.2L 318 OHV V8 3.9063" Bore		(Cummins Eng.)59	
	(Chrysler Eng.)	1160 Combine	4.7L 284 L4 4.25" Bore	
	. 4.7L 284 L4 4.25" Bore		5.0L 301 Diesel L4 4.375" Bore 39	
	. 4.9L 298 OHV L6 3.75" Bore		5.2L 318 OHV V8 3.9063" Bore	
	(Hercules Eng.)		(Chrysler Eng.) 40	
1010 Rice Combine	. 5.0L 301 Diesel L4 4.375" Bore 39	1170 Wheel Tractor	7.4L 451 Diesel L6 4.375" Bore 54	
1010 Rice Combine	. 5.2L 318 OHV V8 3.9063" Bore	1170 Wheel Tractor	7.4L 451 Turbo-Diesel L6 4.375"	
	(Chrysler Eng.) 40		Bore55	
	. 7.4L 451 Diesel L6 4.375" Bore 54	1170 Agri King Wheel		
1030 Confort King Wheel	7.41.454.D1110.4.0555		7.4L 451 Diesel L6 4.375" Bore 54	
	. 7.4L 451 Diesel L6 4.375" Bore 54		7.4L 451 Diesel L6 4.375" Bore 54	
1030 Construction King	. 7.4L 451 Diesel L6 4.375" Bore 54	11/5 wheel tractor	7.4L 451 Turbo-Diesel L6 4.375"	
	. 4.5L 273 OHV V8 3.625" Bore	1175 Agri King Wheel	Bore55	
1000 Combine	(Chrysler Eng.)	Tractor	7.4L 451 Turbo-Diesel L6 4.375"	
1060 Combine	. 4.7L 284 L4 4.25" Bore	1140101	Bore 55	
	.5.0L 301 Diesel L4 4.375" Bore 39	1187C Excavator		
	.5.2L 318 OHV V8 3.9063" Bore		Turbo-Diesel L6 114mm Bore	
	(Chrysler Eng.)		(Cummins Eng.)59	
1060 Rice Combine	. 4.7L 284 L4 4.25" Bore 36	120 Combine	4.4L 267 Diesel L4 4.125" Bore 32	
1060 Rice Combine	. 5.0L 301 Diesel L4 4.375" Bore 39		7.4L 451 Diesel L6 4.375" Bore 54	
1060 Rice Combine	. 5.2L 318 OHV V8 3.9063" Bore	1221E Wheel Loader		
	(Chrysler Eng.) 40		Turbo-Diesel L6 125mm Bore (24	
	. 7.4L 451 Diesel L6 4.375" Bore 54		Valve) (Cummins Eng.)61	
1070 Agri King Wheel		1221E XR Wheel Loader.		
	. 6.6L 401 Diesel L6 4.125" Bore 51		Turbo-Diesel L6 125mm Bore (24	
1070 Agri King Wheel	0.0L 404 Tool D. L. 0.4.405"	1055	Valve) (Cummins Eng.) 61	
ı ractor	. 6.6L 401 Turbo-Diesel L6 4.125"	1255 Combine		
1070 A ari Kina - 14/11	Bore52	1055 Windows	(G188B)	
1070 Agri King Wheel	7 41 451 Turbo Discall C 4 075"		3.1L 188 Diesel L4 3.8125" Bore 22	
i racioi	. 7.4L 451 Turbo-Diesel L6 4.375" Bore 55	12/0 writeer tractor	7.4L 451 Turbo-Diesel L6 4.375"  Bore	
	D016		DOIE	



Model	Line Engine Description No.	Model		Line No.
1270 Agri King Wheel		1680 Combine	. 8.3L 505 (8300cc) OHV	
Tractor	7.4L 451 Turbo-Diesel L6 4.375"		Turbo-Diesel L6 114mm Bore	
	Bore55		(Cummins Eng.)	. 59
1275 Combine	3.7L 225 OHV L6 3.4063" Bore	1688 Combine	8.3L 505 (8300cc) OHV	
	(Chrysler Eng.)25		Turbo-Diesel L6 114mm Bore	
1280 Excavator	8.3L 504 Turbo-Diesel L6 4.625"		(Cummins Eng.)	
	Bore57	17/27 Wheel Tractor	. 4.3L 260 L4 3.875" Bore	. 30
	8.3L 504 Diesel L6 4.625" Bore 56		. 2.6L 159 L4 3.5" Bore	
1370 Wheel Tractor	8.3L 504 Turbo-Diesel L6 4.625"		3.1L 188 Diesel L4 3.8125" Bore	
	Bore57		. 2.6L 159 L4 3.5" Bore	
1370 Agri King Wheel			3.1L 188 Diesel L4 3.8125" Bore	. 22
Tractor	8.3L 504 Turbo-Diesel L6 4.625"	1737 Uni-Loader Wheel		
	Bore57		2.4L 148 L4 3.375" Bore (G148)	. 12
140 Hay Baler	1.5L 91.9 L-HEAD V4 3" Bore	1737 Uni-Loader Wheel	0.41.440.1.4.0.075	
44014 11 5 1	(Wisconsin Eng.)	Tractor		40
140W Hay Baler	1.5L 91.9 L-HEAD V4 3" Bore	47070 W/   T +	(G148B)	
14014	(Wisconsin Eng.) 2 1.5L 91.9 L-HEAD V4 3" Bore		. 2.6L 159 L4 3.5" Bore	. 17
140W Combine		1737S Uni-Loader Wheel		10
14E0 Crowler Tracter	(Wisconsin Eng.)	1737S Uni-Loader Wheel	2.4L 148 L4 3.375" Bore (G148)	. 12
	8.3L 504 Diesel L6 4.625" Bore 56 8.3L 504 Turbo-Diesel L6 4.625"	Tractor	2 /I 1/9 I / 2 275" Para	
1750 Crawler Tractor	Bore 57	1140101	2.4L 148 L4 3.375 Bore (G148B)	12
1450 Wheel Loader	8.3L 504 Turbo-Diesel L6 4.625"	1740 Loader	. 3.1L 188 Diesel L4 3.8125" Bore	
1700 VVIICEI LUAUEI	Bore 57		. 3.4L 207 Diesel L4 3.6125 Bore	
1450B Crawler Tractor	8.3L 504 Turbo-Diesel L6 4.625"	1740 Uni-Loader Wheel	0.4L 201 Diesei L4 4 Doie	. 20
1430B Olawici Tiacioi	Bore 57		. 3.1L 188 Diesel L4 3.8125" Bore	22
1470 Wheel Tractor	8.3L 504 Diesel L6 4.625" Bore 56		. 2.2L 132.7 L-HEAD V4 3.25" Bore	
	8.3L 504 Turbo-Diesel L6 4.625"	Trr Hay Baler	(Wisconsin Eng.)	
1470 Wilcol Hactor	Bore 57	1800 Cotton Picker	5 9L 359 (5882cc) OHV	0
1470 Trac King Wheel	5010	Todo III dollor I lokor IIIIIIIII	Turbo-Diesel L6 102mm Bore (12	)
	8.3L 504 Diesel L6 4.625" Bore 56		Valve) (Cummins Eng.)	
1470 Trac King Wheel	0.02 00 1 2.0001 20 1.020 2010 00	1822 Cotton Picker	5.9L 359 (5882cc) OHV	
	8.3L 504 Turbo-Diesel L6 4.625"		Turbo-Diesel L6 102mm Bore (12	,
	Bore57		Valve) (Cummins Eng.)	. 45
150 Combine	4.1L 251 L4 4" Bore 28	1835 Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	. 12
1550 Crawler Tractor		1835 Wheel Tractor		
	Turbo-Diesel L6 114mm Bore		(G148B)	. 13
	(Cummins Eng.) 59	1835 Wheel Loader	3.1L 188 Diesel L4 3.8125" Bore	. 22
	8.3L 504 Diesel L6 4.625" Bore 56	1840 Wheel Skidder	3.9L 239 (3921cc) OHV Diesel L4	
1570 Wheel Tractor	8.3L 504 Turbo-Diesel L6 4.625"		102mm Bore (Cummins Eng.)	. 26
	Bore57	1844 Cotton Picker		
160T Hay Baler	1.8L 108 L-HEAD V4 3.25" Bore		Turbo-Diesel L6 114mm Bore	
	(Wisconsin Eng.) 4		(Cummins Eng.)	. 59
1601 Combine	1.8L 108 L-HEAD V4 3.25" Bore	1845 Loader	. 3.1L 188 Diesel L4 3.8125" Bore	. 22
40014 11 5 1	(Wisconsin Eng.) 4		3.4L 207 Diesel L4 4" Bore	. 23
160W Hay Baler	1.8L 108 L-HEAD V4 3.25" Bore	1845 Uni-Loader Wheel	0.41.400 B; 11.4.0.040E#B	
10014	(Wisconsin Eng.) 4		. 3.1L 188 Diesel L4 3.8125" Bore	
TOUVY Combine	1.8L 108 L-HEAD V4 3.25" Bore	1845C wheel Skidder	. 3.9L 239 (3921cc) OHV Diesel L4	
1640 Combine	(Wisconsin Eng.) 4	10/EC     p:   code:   \//b	102mm Bore (Cummins Eng.)	. 26
1040 Combine	5.9L 359 (5882cc) OHV Turbo-Diesel L6 102mm Bore (12	1845S Uni-Loader Wheel	. 3.1L 188 Diesel L4 3.8125" Bore	20
	Valve) (Cummins Eng.)		. 3.1L 188 Diesei L4 3.8125 Bore . 3.4L 207 Diesel L4 4" Bore	
1644 Combine		1855 Loader Wheel	201 DIESEI L4 4 DUIE	. ∠პ
10-7 OUITIDITIE	Turbo-Diesel L6 102mm Bore (12		. 3.1L 188 Diesel L4 3.8125" Bore	20
	Valve) (Cummins Eng.)	188D Type 1 Wheel		. 22
1660 Combine	5.2L 318 OHV V8 3.9063" Bore		3.1L 188 Diesel L4 3.8125" Bore	22
1000 Oombine	(Chrysler Eng.)	188D Type 11 Wheel		. 22
1660 Wheel Tractor	5.8L 354 OHV Diesel L6 3.875"	Tractor	3.1L 188 Diesel L4 3.8125" Bore	22
1000 WIICOI HACIOI	Bore (12 Valve) (Perkins Eng.) 43	188G Type 1 Wheel	O. 12 100 DIGGGI L4 0.0125 DOIE	
1660 Combine	8 31 505 (8300cc) OHV	Tractor	3 1L 188 L4 3 8125" Rore	
	Turbo-Diesel L6 114mm Bore		(G188B)	. 21
	(Cummins Eng.)59	188G Type 11 Wheel	(3.505)	1
1665 Combine	5.2L 318 OHV V8 3.9063" Bore	Tractor	. 3.1L 188 L4 3.8125" Bore	
	(Chrysler Eng.)		(G188B)	. 21
1665 Wheel Tractor	5.8L 354 OHV Diesel L6 3.875"	188G Type 201 Wheel	(5.302)	. – .
	Bore (12 Valve) (Perkins Eng.) 43	Tractor	. 3.1L 188 L4 3.8125" Bore	
1666 Combine			(G188B)	. 21
	Turbo-Diesel L6 114mm Bore	1896 Wheel Loader	. 5.9L 359 (5882cc) OHV	
	(Cummins Eng.)59	1230 111.031 200001	Turbo-Diesel L6 102mm Bore (12	•
1670 Combine			Valve) (Cummins Eng.)	45
	Turbo-Diesel L6 114mm Bore	200 Wheel Tractor	. 2.3L 140 L-HEAD L4 3.1875" Bore	еĴ
	(Cummins Eng.)59		(Continental Eng.)	11
	,		. 2.1L 126 L4 3.125" Bore	



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2022 Cotton Picker			2.4L 148 L4 3.375" Bore (G148)	12	
	Turbo-Diesel L6 102mm Bore (12	300B Wheel Tractor		10	
2090 Wheel Tractor	Valve) (Cummins Eng.)	300B Wheel Tractor	(G148B) 2.6L 157 OHV Diesel L4 3.4375"	13	
2030 Wheel Hactor	Bore	VVIICEI TIACIOI	Bore (Continental Eng.)	16	
2096 Wheel Tractor		300C Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore	41	
	Turbo-Diesel L6 102mm Bore (12	300C Wheel Skidder	5.5L 336 Turbo-Diesel L4 4.625"		
0400 \\	Valve) (Cummins Eng.) 45	004 14/1 1.T	Bore	42	
	2.1L 126 L4 3.125" Bore	301 Wheel Tractor	2.6L 157 OHV Diesel L4 3.4375" Bore (Continental Eng.)	16	
	2.4L 146 L4 3.375 Bore (G146) 12	301D Type 1 Wheel	Bore (Continental Eng.)	10	
	2.4L 148 L4 3.375" Bore (G148) 12		5.0L 301 Diesel L4 4.375" Bore	39	
2144 Combine		301D Type 11 Wheel			
	Turbo-Diesel L6 102mm Bore (12		5.0L 301 Diesel L4 4.375" Bore	39	
2200 Wheel Treater	Valve) (Cummins Eng.)	301D Type 111 Wheel	5.0L 301 Diesel L4 4.375" Bore	20	
	8.3L 504 Diesei L6 4.625 Bore 56		2.6L 157 OHV Diesel L4 3.4375"		
ZZ30 Wheel Hactor	Bore	VIIICO TIACIOTIMI	Bore (Continental Eng.)		
2294 Wheel Tractor	8.3L 504 Turbo-Diesel L6 4.625"		2.4L 148 L4 3.375" Bore (G148)	12	
	Bore57	310 Wheel Tractor			
2366 Combine		O10 Missel Treater	(G148B)		
	Turbo-Diesel L6 114mm Bore (Cummins Eng.)59		3.1L 188 Diesel L4 3.8125" Bore 3.1L 188 Diesel L4 3.8125" Bore		
2390 Wheel Tractor	8.3L 504 Diesel L6 4.625" Bore 56		2.4L 148 L4 3.375" Bore (G148)		
	8.3L 504 Turbo-Diesel L6 4.625"	310B Wheel Tractor			
	Bore57		(G148B)	13	
2394 Wheel Tractor	8.3L 504 Turbo-Diesel L6 4.625"		3.1L 188 Diesel L4 3.8125" Bore		
0470 Wheel Treeter	Bore 57 8.3L 504 Diesel L6 4.625" Bore 56	310C Wheel Tractor 310C Wheel Tractor	2.4L 148 L4 3.375" Bore (G148)	12	
	8.3L 504 Diesei L6 4.625 Bore 56 8.3L 504 Turbo-Diesel L6 4.625"	310C Wheel Tractor	(G148B)	13	
2470 Trac King Wheel	Bore 57	310C From Ser. No. 3008188 Crawler	(41405)	10	
	8.3L 504 Turbo-Diesel L6 4.625"	Tractor	3.1L 188 Diesel L4 3.8125" Bore		
	Bore		2.4L 148 L4 3.375" Bore (G148)	12	
	8.3L 504 Diesel L6 4.625" Bore 56 8.3L 504 Turbo-Diesel L6 4.625"	310D Wheel Tractor	2.4L 148 L4 3.3/5" Bore (G148B)	12	
2390 Wheel Hactor	Bore 57	310D Crawler Tractor	3.1L 188 Diesel L4 3.8125" Bore		
2594 Wheel Tractor	8.3L 504 Turbo-Diesel L6 4.625"		2.4L 148 L4 3.375" Bore (G148)		
	Bore57	310E Wheel Tractor	2.4L 148 L4 3.375" Bore `		
	8.3L 504 Diesel L6 4.625" Bore 56	0405 0 1:	(G148B)	13	
2670 Wheel Tractor	8.3L 504 Turbo-Diesel L6 4.625"  Bore		3.1L 188 Diesel L4 3.8125" Bore 3.1L 188 Diesel L4 3.8125" Bore		
2670 Trac King Wheel	Bore		2.4L 148 L4 3.375" Bore (G148)		
Tractor	8.3L 504 Turbo-Diesel L6 4.625"	310F Wheel Tractor			
	Bore57		(G148B)	13	
284G Type 1 Wheel			3.1L 188 Diesel L4 3.8125" Bore		
	4.7L 284 L4 4.25" Bore 36		3.1L 188 Diesel L4 3.8125" Bore 2.4L 148 L4 3.375" Bore (G148)		
284G Type 11 Wheel	4.7L 284 L4 4.25" Bore 36	310G Wheel Tractor		12	
284G Type 111 Wheel	4.7 2 204 24 4.20 8010	orda wheel mader	(G148B)	13	
Tractor	4.7L 284 L4 4.25" Bore 36		3.1L 188 Diesel L4 3.8125" Bore		
284L Type 1 Wheel	4 = 1 00 4 1 4 4 0 = 11 B	310G From Ser. No.			
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284L Type 11 Wheel	4.7L 284 L4 4.25" Bore 36		3.1L 188 Diesel L4 3.8125" Bore 2.4L 148 L4 3.375" Bore (G148)		
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284N Type 111 Wheel	4.7L 284 L4 4.25" Bore 36	311B Wheel Tractor	(G148B)		
	4.7L 284 L4 4.25" Bore 36		2.4L 148 L4 3.375" Bore (G148)		
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300 Wheel Tractor	2.6L 162 L-HEAD L4 3.4375" Bore	320 Wheel Tractor	2.4L 148 L4 3.375" Bore `		
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	Valve) (Cummins Eng.)	580 Wheel Tractor	3.1L 188 L4 3.8125" Bore (G188B)21
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	. 3.4L 207 Diesel L4 4" Bore		3.4L 207 Diesel L4 4" Bore
530 Series Wheel Tractor. 530 Series Wheel Tractor.	. 2.6L 159 L4 3.5" Bore 17 . 3.1L 188 L4 3.8125" Bore		Turbo-Diesel L4 102mm Bore (Cummins Eng.)27
	(G188B)21 .3.1L 188 Diesel L4 3.8125" Bore 22 .2.4L 148 L4 3.375" Bore (G148) 12	580B Wheel Tractor	2.4L 148 L4 3.375" Bore (G148) 12 2.4L 148 L4 3.375" Bore (G148B)
531 Wheel Tractor	. 2.4L 148 L4 3.375" Bore (G148B)	580B Wheel Tractor 580B Wheel Tractor	2.6L 159 L4 3.5" Bore 17 3.1L 188 L4 3.8125" Bore
531 Wheel Tractor			(G188B)
	(G188B)21 .3.1L 188 Diesel L4 3.8125" Bore 22 .2.4L 148 L4 3.375" Bore (G148) 12		3.1L 188 Diesel L4 3.8125" Bore 22 3.4L 207 Diesel L4 4" Bore 23
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540 Wheel Tractor540 Wheel Tractor	. 2.6L 159 L4 3.5" Bore 17 . 3.1L 188 L4 3.8125" Bore	Tractor	2.4L 148 L4 3.375" Bore (G148B)13
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540C Wheel Tractor	. 2.4L 148 L4 3.375" Bore (G148B)	Tractor	3.1L 188 L4 3.8125" Bore (G188B)21
540C Wheel Tractor 540C Wheel Tractor	. 2.6L 159 L4 3.5" Bore 17 . 3.1L 188 L4 3.8125" Bore		3.1L 188 Diesel L4 3.8125" Bore 22
540C Wheel Tractor	(G188B)21 .3.1L 188 Diesel L4 3.8125" Bore 22 .2.4L 148 L4 3.375" Bore (G148) 12	580C Wheel Loader	3.1L 188 Diesel L4 3.8125" Bore 22 3.1L 188 Diesel L4 3.8125" Bore 22 3.4L 207 Diesel L4 4" Bore 23
541 Wheel Tractor		580C Wheel Tractor	3.4L 207 Diesel L4 4" Bore



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580CK Wheel Tractor		C10 Minori Treater	(Continental Eng.)	24	
ESOCK Wheel Treater	13 (G148B)		6.2L 377 L6 4" Bore (Early) 6.6L 401 Diesel L6 4.125" Bore.		
580CK Wheel Tractor			2.7L 164 L4 3.5625" Bore		
JOOGIC WHICE Tractor	(G188B)21		2.7L 164 L4 3.5625" Bore		
580CK Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore 22	621 Wheel Loader			
	3.1L 188 Diesel L4 3.8125" Bore 22		Turbo-Diesel L6 102mm Bore (1		
	3.4L 207 Diesel L4 4" Bore 23		Valve) (Cummins Eng.)	45	
	3.4L 207 Diesel L4 4" Bore 23	621B Wheel Loader		40	
	3.4L 207 Diesel L4 4" Bore 23 3.4L 207 Diesel L4 4" Bore 23		Turbo-Diesel L6 102mm Bore (1		
580H Backhoe	3.4L 207 Diesei L4 4 Bore 23 3.9L 239 (3921cc) OHV Diesel L4	630 Wheel Tractor	Valve) (Cummins Eng.)	45	
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580K Loader	102mm Bore (Cummins Eng.) 26 . 3.9L 239 (3921cc) OHV Diesel L4	630 Wheel Tractor	3.1L 188 Diesel L4 3.8125" Bore	e 22	
	102mm Bore (Cummins Eng.) 26		3.1L 188 L4 3.8125" Bore		
580K Loader			(G188B)		
	Turbo-Diesel L4 102mm Bore		3.1L 188 Diesel L4 3.8125" Bore	э 22	
5001	(Cummins Eng.)	631 Wheel Tractor	3.1L 188 L4 3.8125" Bore	0.1	
580L Loader	3.9L 239 (3921cc) OHV Turbo-Diesel L4 102mm Bore	621 Wheel Treater	(G188B)	∠1	
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584 Wheel Tractor			1.8L 108 L-HEAD V4 3.25" Bore		
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600 Combine	3.1L 188 L4 3.8125 Bore (G188B)21	6591TA Power Unit	Valve) (Cummins Eng.)	45	
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600 Combine			3.1L 188 Diesel L4 3.8125" Bore		
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600 Bean Special		680 Wheel Tractor	5.0L 301 Diesel L4 4.375" Bore.	39	
Combine	3.1L 188 L4 3.8125" Bore		4.4L 267 Diesel L4 4.125" Bore.		
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600 Bean Special	3.1L 188 Diesel L4 3.8125" Bore 22		5.5L 336 Diesel L4 4.625" Bore.		
600B Wheel Tractor	3.1L 188 Diesei L4 3.8125° Bore 22 2.7L 164 L4 3.5625" Bore 19		4.1L 251 L4 4" Bore 4.4L 267 Diesel L4 4.125" Bore.		
6000 Windrower	2.7L 164 L4 3.5625 Bore		4.4L 267 Diesel L4 4.125 Bore. 4.4L 267 Diesel L4 4.125" Bore.		
	102mm Bore (Cummins Eng.) 26 3.1L 188 Diesel L4 3.8125" Bore 22	0000K Wh I Tu I - u	5.0L 301 L4 4.375" Bore		
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	Line		
880CK-B Wheel Tractor	Engine Description No.	Model	Line Engine Description No.
	5.0L 301 Diesel L4 4.375" Bore 39	7240 Wheel Tractor	8.3L 505 (8300cc) OHV
880H Construction King	4.4L 267 Diesel L4 4.125" Bore 32		Turbo-Diesel L6 114mm Bore
			(Cummins Eng.)59
Whool Tractor	5.5L 336 Diesel L4 4.625" Bore 41	7250 Wheel Tractor	8 31 505 (8300cc) OHV
		7250 Wheel Hactor	
880K Loader			Turbo-Diesel L6 114mm Bore
	Turbo-Diesel L6 102mm Bore (12		(Cummins Eng.) 59
	Valve) (Cummins Eng.) 45		4.1L 251 L4 4" Bore 28
880L Loader	5.9L 359 (5882cc) OHV	730 Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore 32
	Turbo-Diesel L6 102mm Bore (12	730 Eagle Hitch Wheel	
	Valve) (Cummins Eng.) 45		4.1L 251 L4 4" Bore 28
8830T Power Unit		730 Eagle Hitch Wheel	4.16 231 64 4 1000
bosot Fower Offit	( / -		4.4L 267 Diesel L4 4.125" Bore 32
	Turbo-Diesel L6 114mm Bore		4.4L 207 Diesei L4 4.125 Boile 32
	(Cummins Eng.) 59	730 Orchard Wheel	
830TA Power Unit			4.1L 251 L4 4" Bore 28
	Turbo-Diesel L6 114mm Bore	730 Orchard Wheel	
	(Cummins Eng.) 59	Tractor	4.4L 267 Diesel L4 4.125" Bore 32
8831T Power Unit			4.1L 251 L4 4" Bore 28
,0011 1 0W01 01M1	Turbo-Diesel L6 114mm Bore		4.4L 267 Diesel L4 4.125" Bore 32
2004TA D	(Cummins Eng.)		4.1L 251 L4 4" Bore
8831TA Power Unit	8.3L 505 (8300cc) OHV	/300K wheel I ractor	4.4L 267 Diesel L4 4.125" Bore 32
	Turbo-Diesel L6 114mm Bore	/40 Wheel Tractor	4.1L 251 L4 4" Bore 28
	(Cummins Eng.) 59		4.1L 251 Diesel L4 4" Bore 29
888 Excavator	3.9L 239 (3921cc) OHV		4.4L 267 Diesel L4 4.125" Bore 32
	Turbo-Diesel L4 102mm Bore		1.5L 91.9 L-HEAD V4 3" Bore
	(Cummins Eng.)27		(Wisconsin Eng.)2
700 Combino	3.7L 225 OHV L6 3.4063" Bore	750 To Ser. No. 7070350	(**1000110111 E11g.) 2
00 Combine		750 10 Sel. No. 7070550	E 01 004 Discoll 4 4 075    Davis 00
	(Chrysler Eng.)		5.0L 301 Diesel L4 4.375" Bore 39
700 Rice Combine	3.7L 225 OHV L6 3.4063" Bore	760 I rencher	3.9L 239 (3921cc) OHV Diesel L4
	(Chrysler Eng.) 25		102mm Bore (Cummins Eng.) 26
700B Wheel Tractor	4.1L 251 L4 4" Bore 28	77 Combine	2.1L 126 L4 3.125" Bore 7
	4.4L 267 Diesel L4 4.125" Bore 32		2.4L 148 L4 3.375" Bore (G148) 12
	4.1L 251 L4 4" Bore		4.4L 267 Diesel L4 4.125" Bore 32
	4.1L 251 L4 4" Bore	770 Agri King Wheel	4.4L 207 DICSCI L4 4.125 DOIC 02
			4.41.054.1.4.41.054.6
	4.1L 251 L4 4" Bore 28		4.1L 251 L4 4" Bore 28
	4.1L 251 L4 4" Bore 28	770 Agri King Wheel	
	4.4L 267 Diesel L4 4.125" Bore 32		4.1L 251 Diesel L4 4" Bore 29
711B Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore 32	770 Agri King Wheel	
7110 Wheel Tractor	., 8.3L 505 (8300cc) OHV	Tractor	4.4L 267 Diesel L4 4.125" Bore 32
	Turbo-Diesel L6 114mm Bore		5.5L 336 Diesel L4 4.625" Bore 41
	(Cummins Eng.)59		5.5L 336 Turbo-Diesel L4 4.625"
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120 Wheel Tractor		760C Loader	
	Turbo-Diesel L6 114mm Bore		Turbo-Diesel L6 102mm Bore (12
	(Cummins Eng.) 59		Valve) (Cummins Eng.) 45
713B Wheel Tractor	4.4L 267 Diesel L4 4.125" Bore 32	780CK Wheel Tractor	5.5L 336 Diesel L4 4.625" Bore 41
7130 Wheel Tractor	., 8.3L 505 (8300cc) OHV	780CK Wheel Loader	5.5L 336 Diesel L4 4.625" Bore 41
	Turbo-Diesel L6 114mm Bore	780CK Wheel I oader	5.5L 336 Turbo-Diesel L4 4.625"
	(Cummins Eng.)59		Bore42
7140 Wheel Tractor	8 31 505 (8300cc) OHV	780D Loader	
1-0 VVIIGGI ITACIUI		, 50D LUAUGI	
	Turbo-Diesel L6 114mm Bore		Turbo-Diesel L6 102mm Bore (12
	(Cummins Eng.)		Valve) (Cummins Eng.) 45
	4.4L 267 Diesel L4 4.125" Bore 32	8-12 Cut Combine	3.0L 186 L4 3.625" Bore
7150 Wheel Tractor			(Waukesha Eng.)20
	Turbo-Diesel L6 114mm Bore	8-12 Cut Combine	4.3L 260 L4 3.875" Bore 30
	(Cummins Eng.)59		2.1L 126 L4 3.125" Bore 7
721 Loader	8.31.505 (8300cc) OHV		2.4L 148 L4 3.375" Bore (G148) 12
Z I LUAUCI		900 Combine	4.1L 251 L4 4" Bore 28
	Turbo-Diesel L6 114mm Bore		
	(Cummins Eng.) 59		4.4L 267 Diesel L4 4.125" Bore 32
-0.4B		800 Wheel Tractor	4.5L 277 OHV Diesel L4 4" Bore
721B Loader	Turbo-Diesel L6 114mm Bore		(Continental Eng.)
721B Loader	(Cumamaina Franc)	800 Crawler Tractor	5.5L 336 Diesel L4 4.625" Bore 41
	(Cummins Eng.) 59		5.5L 336 Diesel L4 4.625" Bore 41
	. 8.3L 505 (8300cc) OHV		
721B Loader	8.3L 505 (8300cc) OHV		
	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore	800 Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore 41
7210 Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)59	800 Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore 41 5.5L 336 Turbo-Diesel L4 4.625"
	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)59 8.3L 505 (8300cc) OHV	800 Wheel Skidder 800 Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore 41 5.5L 336 Turbo-Diesel L4 4.625" Bore
7210 Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)59 8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore	800 Wheel Skidder 800 Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore 41 5.5L 336 Turbo-Diesel L4 4.625" Bore
7210 Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)59 8.3L 505 (8300cc) OHV	800 Wheel Skidder 800 Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore 41 5.5L 336 Turbo-Diesel L4 4.625" Bore
7210 Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	800 Wheel Skidder 800 Wheel Skidder 800 Wheel Loader 800B Wheel Tractor	5.5L 336 Diesel L4 4.625" Bore 41 5.5L 336 Turbo-Diesel L4 4.625" Bore
7210 Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	800 Wheel Skidder 800 Wheel Skidder 800 Wheel Loader 800B Wheel Tractor 801 Wheel Tractor	5.5L 336 Diesel L4 4.625" Bore 41 5.5L 336 Turbo-Diesel L4 4.625" Bore
7210 Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	800 Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore 41 5.5L 336 Turbo-Diesel L4 4.625" Bore
7210 Wheel Tractor7211 Wheel Tractor7220 Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	800 Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore 41 5.5L 336 Turbo-Diesel L4 4.625" Bore
7210 Wheel Tractor	8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)	800 Wheel Skidder	5.5L 336 Diesel L4 4.625" Bore 41 5.5L 336 Turbo-Diesel L4 4.625" Bore



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	4.1L 251 L4 4" Bore		Valve) (Cummins Eng.) 5
811B Wheel Tractor	4.1L 251 L4 4" Bore	870 Wheel Tractor	5.0L 301 L4 4.375" Bore 3
812B Wheel Tractor	4.1L 251 L4 4" Bore	870 Wheel Tractor	5.5L 336 Diesel L4 4.625" Bore 4
813B Wheel Tractor	4.1L 251 L4 4" Bore	870 Wheel Tractor	5.5L 336 Turbo-Diesel L4 4.625"
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	(Cummins Eng.) 59	Tractor	5.0L 301 L4 4.375" Bore 3
821B Wheel Loader	8.3L 505 (8300cc) OHV	870 Agri King Wheel	
	Turbo-Diesel L6 114mm Bore	Tractor	5.5L 336 Diesel L4 4.625" Bore 4
	(Cummins Eng.) 59		5.5L 336 Diesel L4 4.625" Bore 4
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825 Wheel Skidder	5.5L 336 Turbo-Diesel L4 4.625"	880 Crawler Tractor	5.5L 336 Turbo-Diesel L4 4.625"
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830 Wheel Tractor	4.7L 284 L4 4.25" Bore 36	880 Excavator	5.5L 336 Turbo-Diesel L4 4.625"
	5.0L 301 L4 4.375" Bore 38		Bore4
	5.0L 301 Diesel L4 4.375" Bore 39	880B Excavator	5.5L 336 Diesel L4 4.625" Bore 4
830 Eagle Hitch Wheel			5.5L 336 Turbo-Diesel L4 4.625"
Tractor	4.7L 284 L4 4.25" Bore 36		Bore4
830 Eagle Hitch Wheel		880C Wheel I oader	8.3L 504 Diesel L6 4.625" Bore 5
Tractor	5.0L 301 Diesel L4 4.375" Bore 39		8.3L 504 Turbo-Diesel L6 4.625"
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	5.0L 301 Diesel L4 4.375" Bore 39	880D Excavator	5.9L 359 (5882cc) OHV
330CK Wheel Tractor	4.7L 284 L4 4.25" Bore 36	LACAVATOI	Turbo-Diesel L6 102mm Bore (12
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		9920 Windrower	3.9L 239 (3921cc) OHV Diesel L4
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	Turbo-Diesel L6 107mm Bore (24	0040 Windrewer	102mm Bore (Cummins Eng.) 2 3.9L 239 (3921cc) OHV Diesel L4
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	5.0L 301 Diesel L4 4.375" Bore 39	885 Grader	6.7L 408 (6691cc) OHV
	5.0L 301 Diesel L4 4.375" Bore 39		Turbo-Diesel L6 107mm Bore (24
	5.5L 336 Diesel L4 4.625" Bore 41		Valve) (Cummins Eng.) 5
	5.5L 336 Diesel L4 4.625" Bore 41	8850 Windrower	5.9L 359 (5882cc) OHV
350D Crawler Tractor	5.9L 359 (5882cc) OHV Diesel L6		Turbo-Diesel L6 102mm Bore (12
	102mm Bore (Cummins Eng.) 44		Valve) (Cummins Eng.) 4
850D Wheel Tractor	5.9L 359 (5882cc) OHV	888 Excavator	5.9L 359 (5882cc) OHV
	Turbo-Diesel L6 102mm Bore (12		Turbo-Diesel L6 102mm Bore (12
	Valve) (Cummins Eng.) 45		Valve) (Cummins Eng.) 4
850D Crawler Tractor	5.9L 359 (5882cc) OHV	8910 Wheel Tractor	8.3L 505 (8300cc) OHV
	Turbo-Diesel L6 102mm Bore (12		Turbo-Diesel L6 114mm Bore
	Valve) (Cummins Eng.) 45		(Cummins Eng.) 5
350E Crawler Tractor	5.9L 359 (5882cc) OHV Diesel L6	8920 Wheel Tractor	8.3L 505 (8300cc) OHV
	102mm Bore (Cummins Eng.) 44		Turbo-Diesel L6 114mm Bore
350E Crawler Tractor			(Cummins Eng.) 5
	Turbo-Diesel L6 102mm Bore (12	8930 Wheel Tractor	8.3L 505 (8300cc) OHV
	Valve) (Cummins Eng.) 45		Turbo-Diesel L6 114mm Bore
350G Crawler Tractor			(Cummins Eng.) 5
	Turbo-Diesel L6 102mm Bore (12	8940 Wheel Tractor	8.3L 505 (8300cc) OHV
	Valve) (Cummins Eng.) 45		Turbo-Diesel L6 114mm Bore
355B Grader			(Cummins Eng.)5
,002 Grador	Turbo-Diesel L6 107mm Bore (24	8950 Wheel Tractor	8.3L 505 (8300cc) OHV
	Valve) (Cummins Eng.)	VIIIEEI TIACIOI	Turbo-Diesel L6 114mm Bore
REED Crawler Tractor	5.9L 359 (5882cc) OHV Diesel L6		(Cummins Eng.)5
JJJD Clawler Tractor	102mm Bore (Cummins Eng.) 44	000 Combine	3.7L 225 OHV L6 3.4063" Bore
PEED Crowler Treater		900 Combine	
355D Crawler Tractor		000 W/b   T t	2 (Chrysler Eng.) 2 4.1L 251 Diesel L4 4" Bore
	Turbo-Diesel L6 102mm Bore (12	900 wheel tractor	4.1L 251 Diesei L4 4" Bore 2
O . T .	Valve) (Cummins Eng.) 45		or 6.2L 377 Diesel L6 4" Bore 5
355⊨ Crawler Tractor	5.9L 359 (5882cc) OHV Diesel L6	9010 Excavator	3.9L 239 (3921cc) OHV
	102mm Bore (Cummins Eng.) 44		Turbo-Diesel L4 102mm Bore
B55E Crawler Tractor			(Cummins Eng.)2
	Turbo-Diesel L6 102mm Bore (12	9010B Excavator	3.9L 239 (3921cc) OHV
	Valve) (Cummins Eng.) 45		Turbo-Diesel L4 102mm Bore
360 Trencher			(Cummins Eng.) 2
	Turbo-Diesel L4 102mm Bore	9020 Excavator	3.9L 239 (3921cc) OHV
	(Cummins Eng.)27		Turbo-Diesel L4 102mm Bore
365 DHP Grader			(Cummins Eng.)2
	Turbo-Diesel L6 102mm Bore (24	9020B Excavator	3.9L 239 (3921cc) OHV
	Valve) (Cummins Eng.) 47		Turbo-Diesel L4 102mm Bore



Line   Model   Engline Description   No.   Model   Engline Description   No.   Model   Security   No.   Model   Security   No.   No.   Model   Security   No.		Model Index				
Turbo-Dissel L6 (02mm Bror (12 Valve) (Cummins Eng.)	Model		Model			
Valve   Cummins Eng.	9030 Excavator					
9030B				6.2L 377 L6 4" Bore (Late) 49		
Turbo-Dissel L6 (02mm Brog (12   Valve) (Cummins Eng.)	0020B Everyeter			6 61 401 Dissal I 6 4 105" Boro - 51		
Valve   Cummins Eng.	9030B Excavator					
9040 Excavator 9. 3.1. 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummis Eng.)						
930GP   Crawler Tractor   6.2   377 L6 4* Bore (Late)   49	9040 Excavator		930GB Wheel Tractor	6.2L 377 L6 4" Bore (Late) 49		
9040B   Excavator			930GB Wheel Tractor	6.6L 401 Diesel L6 4.125" Bore 51		
10	00400	(Cummins Eng.)				
910B	9040B Excavator		930GP Crawler Tractor	5.5L 401 Diesei L5 4.125° Bore 51		
910B. Wheel Tractor. 4.1L 251 L4 4" Bore			930WS Wheel Tractor	6.2L 377 L6 4" Bore (Larry)		
910B. Wheel Tractor. 6.6. d.401 Diesel L6 4.125" Bore. 51 9110 Wheel Tractor 7. 6.8. d.401 Diesel L6 1.126" Bore. 51 17.00 Cummins Eng.)	910B Wheel Tractor		930WS Crawler Tractor	6.2L 377 L6 4" Bore (Late) 49		
Turbo-Diesel L6 114mm Bore (Cummins Eng.)			930WS Wheel Tractor	6.6L 401 Diesel L6 4.125" Bore 51		
Section   Sect	9110 Wheel Tractor					
9130   Wheel Tractor				6.6L 401 Diesel L6 4.125" Bore 51		
Section	9130 Wheel Tractor			6.2L 377 L6.4" Bore (Farly) 48		
Meel Tractor	Vilicoi i i dotoi			0.22 077 20 1 Boro (2any)		
Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.)		(Cummins Eng.) 59	Wheel Tractor	6.2L 377 L6 4" Bore (Late) 49		
Valve  (Cummins Eng.)   59	9150 Wheel Tractor		9310 Wheel Tractor			
9170   Wheel Tractor   14.0L 855 OHV Turbo-Diesel L6 5.5" Bore (Cummins Eng.)   62						
5.5" Bore (Cummins Eng.)	9170 Wheel Tractor		9330 Wheel Tractor	8 31 505 (8300cc) OHV		
9180 Wheel Tractor	3170 Wheel Hactor		VIIICEI TIACIOI			
920. Wheel Tractor. 6.6 L 401 Diesel L 4 4 "Bore (Late)". 49 920. Wheel Tractor. 6.6 L 401 Diesel L 6 4.125" Bore 51 921C. Wheel Loader 10.8L 661 (10800cc) OHV Turbo-Diesel L 6 125mm Bore (24 Valve) (Cummins Eng.)	9180 Wheel Tractor	14.0L 855 OHV Turbo-Diésel L6				
920 Wheel Tractor 6.6. 401 Diesel L6 4.125" Bore 51 921C Wheel Loader 10.8L 661 (10800cc) OHV Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.) 61 10.8L 661 (10800cc) OHV Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.) 61 9210 Wheel Tractor 8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.) 59 9230 Wheel Tractor 8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.) 59 9240 Wheel Tractor 8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.) 59 9250 Wheel Tractor 8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.) 59 9250 Wheel Tractor 6.1 61 (10000cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.) 59 930 Wheel Tractor 6.1 61 (10000cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.) 59 930 Wheel Tractor 6.2L 377 L6 4" Bore (Early) 48 930 Wheel Tractor 6.2L 377 L6 4" Bore (Early) 48 930 Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 43		5.5" Bore (Cummins Eng.) 62				
921C Wheel Loader. 10.8L 661 (10800cc) OHV Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.)						
Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.)						
Valve   (Cummins Eng.)   61   0.8L 661 (10800cc) OHV   Turbo-Diesel L6 125mm Bore (24   Valve) (Cummins Eng.)   61   9210   Wheel Tractor   8.3L 505 (8300cc) OHV   Turbo-Diesel L6 114mm Bore (Cummins Eng.)   9230   Wheel Tractor   8.3L 505 (8300cc) OHV   Turbo-Diesel L6 114mm Bore (Cummins Eng.)   9240   Wheel Tractor   8.3L 505 (8300cc) OHV   Turbo-Diesel L6 114mm Bore (Cummins Eng.)   9250   Wheel Tractor   8.3L 505 (8300cc) OHV   Turbo-Diesel L6 114mm Bore (Cummins Eng.)   9250   Wheel Tractor   8.3L 505 (8300cc) OHV   Turbo-Diesel L6 114mm Bore (Cummins Eng.)   9250   Wheel Tractor   8.3L 505 (8300cc) OHV   Turbo-Diesel L6 114mm Bore (Cummins Eng.)   9250   Wheel Tractor   8.3L 505 (8300cc) OHV   Turbo-Diesel L6 114mm Bore (Cummins Eng.)   9250   Wheel Tractor   8.3L 505 (8300cc) OHV   Turbo-Diesel L6 114mm Bore (Cummins Eng.)   9250   Wheel Tractor   8.3L 505 (8300cc) OHV   Turbo-Diesel L6 114mm Bore (Cummins Eng.)   9250   Wheel Tractor   8.3L 505 (8300cc) OHV   Turbo-Diesel L6 114mm Bore (Cummins Eng.)   9250   Wheel Tractor   8.3L 505 (8300cc) OHV   Turbo-Diesel L6 114mm Bore (Cummins Eng.)   9250   Wheel Tractor   8.3L 505 (8300cc) OHV   700 Agri King   Wheel Tractor   8.3L 504 Turbo-Diesel L6 4.125" Bore   51   700 Agri King   Wheel Tractor   8.3L 504 Turbo-Diesel L6 4.125" Bore   52   700 Agri King   Wheel Tractor   8.3L 504 Turbo-Diesel L6 4.625" Bore   54   700 Agri King   Wheel Tractor   8.3L 504 Turbo-Diesel L6 4.625" Bore   57   700 Agri King   Wheel Tractor   8.3L 504 Turbo-Diesel L6 4.625" Bore   57   700 Agri King   Wheel Tractor   8.3L 504 Turbo-Diesel L6 4.625" Bore   57   700 Agri King   Wheel Tractor   8.3L 504 Turbo-Diesel L6 4.625" Bore   57   700 Agri King   Wheel Tractor   8.3L 504 Turbo-Diesel L6 4.625" Bore   57   700 Agri King   Wheel Tractor   8.3L 504 Turbo-Diesel L6 4.625" Bore   57   700 Agri King   Wheel Tractor   8.3L 504 Turbo-Diesel L6 4.625" Bore   57   700 Agri King   Wheel Tractor   8.3L 504 Turbo-Diesel L6 4.625" Bore   57   700 Agri King   Wheel Tractor   8.3L 504 Tu	9210 Wrieer Loader					
921E Wheel Loader 10.8L 661 (10800cc) OHV Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.) 61 9210 Wheel Tractor 8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.) 59 9230 Wheel Tractor 8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.) 59 9240 Wheel Tractor 8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.) 59 9250 Wheel Tractor 10.0L 611 (10000cc) OHV Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.) 59 930 Wheel Tractor 4.1L 251 Diesel L4 4" Bore (29 Valve) (Cummins Eng.) 60 930 Wheel Tractor 6.2L 377 L6 4" Bore (Early) 48 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930				(Chrysler Eng.)		
Valve  Cummins Eng.     61   970     Wheel Tractor     6.6   401 Diesel L 6 4.125" Bore     51   970     Wheel Tractor     6.6   401 Turbo-Diesel L 6 4.125" Bore     52   970     Wheel Tractor     6.6   401 Turbo-Diesel L 6 4.125" Bore     52   970     Wheel Tractor     6.6   401 Turbo-Diesel L 6 4.125" Bore     52   970     Wheel Tractor     6.6   401 Turbo-Diesel L 6 4.125" Bore     57   970     Wheel Tractor     6.6   401 Turbo-Diesel L 6 4.125" Bore     57   970     Wheel Tractor     6.6     401 Diesel L 6 4.125" Bore     51   970     Wheel Tractor     6.6     401 Diesel L 6 4.125" Bore     51   970     Wheel Tractor     6.6     401 Diesel L 6 4.125" Bore     51   970     41     49   970     41     49   970     41     49   970     41     49   970     41     49     49     40     41     49     41     41     49     41     42     42     43     43     44     44     45     44     45     44     45	921E Wheel Loader		960 Rice Combine	3.7L 225 OHV L6 3.4063" Bore		
9210 Wheel Tractor.			070 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(Chrysler Eng.)		
Turbo-Diesel L6 114mm Bore (Cummins Eng.)	9210 Whool Tractor					
Salication	3210 Wheel Hactor		370 Writeer Tractor			
Turbo-Diesel L6 114mm Bore (Cummins Eng.)		(Cummins Eng.) 59	970 Agri King Wheel			
Cummins Eng.	9230 Wheel Tractor			6.2L 377 L6 4" Bore (Early) 48		
9240 Wheel Tractor 8.3L 505 (8300cc) OHV Turbo-Diesel L6 114mm Bore (Cummins Eng.)			970 Agri King Wheel	C OL OZZ I C 41 Dava (Lata) 40		
Turbo-Diesel L6 114mm Bore (Cummins Eng.)	9240 Wheel Tractor			6.2L 3// L6 4 Bore (Late) 48		
Cummins Eng.)	VIIICO TIACIOI			6.6L 401 Diesel L6 4.125" Bore 51		
Turbo-Diesel L6 125mm Bore (24 Valve) (Cummins Eng.)		(Cummins Eng.) 59	970 Agri King Wheel			
Valve) (Cummins Eng.)         60         970 Agri King Wheel         980 Scalant	9250 Wheel Tractor		Tractor			
930 Wheel Tractor			070 Agri King Whool	Bore52		
930 Wheel Tractor 6.2L 377 L6 4" Bore (Early) 48 930 Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Crawler Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Wheel Tractor 6.2L 377 L6 4" Bore (Early) 48 930 CK Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 CK Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 CK Wheel Tractor 6.2L 377 L6 4" Bore (Early) 48 930 CK Draft-O-Matic Wheel Tractor 6.2L 377 L6 4" Bore (Early) 48 930 CK Draft-O-Matic Bore 57 930 CK Draft-O-Matic Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 CK Draft-O-Matic Bore 57 930 CK Draft-O-Matic Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 CK Draft-O-Matic Bore 57 930 CK Draft-O-Matic Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 CK Draft-O-Matic Bore 57 930 CK Draft-O-Matic Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 CK Draft-O-Matic Bore 57 930 CK Draft-O-Matic 57 930 CK	930 Wheel Tractor			7 4L 451 Turbo-Diesel L6 4 375"		
930 Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Crawler Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930 Wheel Tractor 6.2L 377 L6 4" Bore (Early) 48 930 CK Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 CK Draft-O-Matic Wheel Tractor 6.2L 377 L6 4" Bore (Early) 48 930 CK Draft-O-Matic Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930 CK Draft-O-Matic 49 930 CK Draft-O-Matic 49 930 CK Draft-O-Matic 49 930 Crawler Tractor 8.3L 504 Turbo-Diesel L6 4.625" Bore 57 980 Crawler Tractor 8.3L 504 Turbo-Diesel L6 4.625" Bore 57 980 Excavator 8.3L 504 Tu			Tradioi			
930 Crawler Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930CK Wheel Tractor 6.2L 377 L6 4" Bore (Early) 48 930CK Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930CK Draft-O-Matic 6.2L 377 L6 4" Bore (Early) 48 930CK Draft-O-Matic 6.2L 377 L6 4" Bore (Early) 48 930CK Draft-O-Matic 6.2L 377 L6 4" Bore (Early) 48 930CK Draft-O-Matic 6.2L 377 L6 4" Bore (Late) 49 930CK Draft-O-Matic 57 980 Crawler Tractor 8.3L 504 Turbo-Diesel L6 4.625" Bore 57 980 Excavator 8.3L 504 Turbo-Diesel L6 4.625" Bore 57 980 Excavator 8.3L 504 Turbo-Diesel L6 4.625" Bore 57 980 Excavator 8.3L 504 Turbo-Diesel L6 4.625" Bore 57 980 Excavator 8.3L 504 Turbo-Diesel L6 4.625" Bore 57 980 Excavator 8.3L 504 Turbo-Diesel L6 4.625" Bore 57 980 Excavator 8.3L 504 Turbo-Diesel L6 4.625" Bore 57 980B Excavator 8.3L 504 Turbo-Diesel L6 4.625" Bore 57 980B Excavator 8.3L 504 Turbo-Diesel L6 4.625" Bore 57 980B Excavator 8.3L 504 Turbo-Diesel L6 4.625" Bore 57 980B Excavator 8.3L 504 Turbo-Diesel L6 4.625" Bore 57 980B Excavator 8.3L 504 Turbo-Diesel L6 4.625" Bore 57 980B Excavator 8.3L 504 Turbo-Diesel L6 4.625" Bore 57 980B Excavator 8.3L 504 Turbo-Diesel L6 4.625"	930 Wheel Tractor	6.2L 377 L6 4" Bore (Late) 49	980 Excavator			
930CK Wheel Tractor 6.2L 377 L6 4" Bore (Early) 48 930CK Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930CK Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930CK Draft-O-Matic 48 930CK Draft-O-Matic 48 930CK Draft-O-Matic 48 930CK Draft-O-Matic 57 Wheel Tractor 6.2L 377 L6 4" Bore (Early) 48 930CK Draft-O-Matic 57 930CK Draft-O-Matic 49 980 Crawler Tractor 8.3L 504 Turbo-Diesel L6 4.625" 800 Wheel Loader 8.3L 504 Turbo-Diesel L6 4.625" 800 Strawler Tractor 8.3L 504 Turbo-Diesel L6 4.625" 800 Strawler Tractor 8.3L 504 Turbo-Diesel L6 4.625" 800 Strawler Tractor 8.3L 504 Turbo-Diesel L6 4.625" 800 Crawler Tractor 8.3L 504 Turbo-Diesel L6 4.625" 800 Crawler Tractor 8.3L 504 Turbo-Diesel L6 4.625" 800 Strawler Tractor 8.3L 504 Turbo-Diesel L6 4.625" 800 Crawler Tra	_		980 Combine			
930CK Wheel Tractor 6.2L 377 L6 4" Bore (Late) 49 930CK Wheel Tractor 6.6L 401 Diesel L6 4.125" Bore 51 930CK Draft-O-Matic Wheel Tractor 6.2L 377 L6 4" Bore (Early) 48 930CK Draft-O-Matic 980 Wheel Loader 8.3L 504 Turbo-Diesel L6 4.625" Bore 57 980 Excavator 8.3L 504 Turbo-Diesel L6 4.625" Bore 57 980B Excavator 8.3L 504 Turbo-Diesel L6 4.625" 980B Excavator 8.3L 504 Turbo-Diesel L6 4.625" 980B Combine 8.3L 504 Turbo-Diesel L6 4.625" 980B Excavator 8.3L 504 Turbo-Diesel L6 4.625"			000 0000100 Tue otan			
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930CK Draft-O-Matic       Bore			980 Wheel Loader			
930CK Draft-O-Matic       Bore       57         Wheel Tractor		0.02 .0. 2.000. 2020 20.0 0.				
Wheel Tractor       6.2L 377 L6 4" Bore (Late)       49         930CK Draft-O-Matic       980B       Excavator       8.3L 504 Diesel L6 4.625" Bore       56         980B       Combine       8.3L 504 Turbo-Diesel L6 4.625"       57         930CK Special       Wheel       Wheel       8.3L 504 Turbo-Diesel L6 4.625"       57         980B       Excavator       8.3L 504 Turbo-Diesel L6 4.625"       57		6.2L 377 L6 4" Bore (Early) 48	980 Excavator			
930CK Draft-O-Matic		0.01.0771.0.411.D (1.1.)	0000 5			
Wheel Tractor		6.2L 3// L6 4" Bore (Late) 49				
930CK Special Wheel 980B Excavator 8.3L 504 Turbo-Diesel L6 4.625"		6 6L 401 Diesel L6 4 125" Bore 51	300D COMBINE	_		
		0.02 101 510001 20 4.120 5010 01	980B Excavator			
		6.2L 377 L6 4" Bore (Early) 48		Bore57		



### Grain Elevator A2, AE, AEH, AEHS, AEM, AEND, AEND, AENL, AENLD, AENS, AES, **HAENL Engs.**

.4L 23 L-HEAD L1, 3" Bore (Wisconsin Eng.)

	CYL. HEAD & PARTS		
QTY	VALVE	PART NO. SIZE	DESCRIPTION
2	Intake	FP-V816	AEND Engs.; Valves w/single groove stem can be substituted in Early Engs.; 1.3130" Head Dia., .3085" Stem Dia., 4.7660" O.A.L.
2	Intake	FP-V816	Exh. & Int.; Exc. AEND Engs.; Note: valves w/single groove stem can be substituted in Early Engs.; AE series; To Ser. No. 70194 having valves w/drilled stem if valve keeper VK-144 and spring retainer are also installed w/this valve; 1.3130" Head Dia., .3085" Stem Dia., 4.7660" O.A.L.
2	Exhaust	FP-V1326X	AEND Engs.; Valves w/single groove stem can be substituted in Early Engs.; 1.2500" Head Dia., .3085" Stem Dia., 4.7710" O.A.L.
2	Exhaust	FP-V1326X	Optional-H/D valve w/single groove stem; Exc. AEND Engs.; 1.2500" Head Dia., .3085" Stem Dia., 4.7710" O.A.L.
2	Exhaust	FP-V1326X	Optional-H/D valve w/single groove stem; Exc. AEND Engs.; 1.2500" Head Dia., .3085" Stem Dia., 4.7710" O.A.L.
4	Keeper	VK-144	1 groove; Square cut key groove
4	Keeper	VK-144R	1 groove; Square cut key groove; Hardened
QTY	VALVE SEAT	PART NO. SIZE	DESCRIPTION
2	Exh.	FP-24513755	1.3795" OD, 1.1250" ID, .2636" Depth
QTY	VALVE GUIDE	PART NO. SIZE	DESCRIPTION
2	Guide	FP-VG635	Exc. AEND & AE Engs.; .3155" ID, 2.5000" O.A.L.
	VALVE SPRING		DESCRIPTION
2	Spring	FP-VS793	Use w/FP-RC45 rotocap; 1.9700" Free Height
2	Spring	FP-VS468	2.3120" Free Height
	CRANKSHAFT/OIL PUMP		
QTY	MAIN BEARINGS	PART NO. SIZE	DESCRIPTION
2	Cone Taper Brg.	14130	Position 1-2; Tapered roller brg. cone
2	Cup Taper Brg.	14276	Position 1-2; Tapered roller brg. cup
	CYLINDER COMPONENTS		
	CONNECTING RODS &		
	BRGS.		DESCRIPTION
1	Rod Pair	<b>FP-3600SB</b> Std-10-20-30-40	Exc. AES Engs.
	PISTON RINGS		DESCRIPTION
1	Premium Set		3-3/32, 1-3/16 (1 cyl. set)
1	Premium Set	5090KX + Std Only	3-3/32, 1-3/16 (1 cyl. set); When depleted use FP-5090KX
1	Standard Set	FP-5090X Std Only	3-3/32, 1-3/16 (1 cyl. set)
	Hay Ra	lor VEA VEAD VEA1	Engs Combine VEA VEAD VEAT Engs 2

# Hay Baler VE4, VE4D, VE41 Engs. Combine VE4, VE4D, VE41 Engs. 1.5L 91.9 L-HEAD V4, 3" Bore (Wisconsin Eng.)

	CYL. HEAD & PARTS		
QTY	VALVE	PART NO. SIZI	DESCRIPTION
2	Intake	FP-V816	Exh. & Int.; Note: Valves w/single groove stem can be substituted in Early Engs.; AE series To Ser. No. 70194 having valves w/drilled stem if valve keeper VK-144 and spring retainer are also installed w/this valve; 1.3130" Head Dia., .3085" Stem Dia., 4.7660" O.A.L.
2	Exhaust	FP-V1326X	Optional-H/D valve; 1.2500" Head Dia., .3085" Stem Dia., 4.7710" O.A.L.
16	Keeper	VK-144	1 groove; Square cut key groove
16	Keeper	VK-144R	1 groove; Square cut key groove; Hardened
QTY	VALVE SEAT	PART NO. SIZI	DESCRIPTION
4	Exh.	FP-24513755	1.3795" OD, 1.1250" ID, .2636" Depth
QTY	VALVE GUIDE	PART NO. SIZI	DESCRIPTION
8	Guide	FP-VG681	.439" x 1.812"; .3133" ID, 1.8100" O.A.L.
QTY	VALVE SPRING	PART NO. SIZI	DESCRIPTION
8	Spring	FP-VS793	Use w/FP-RC45 rotocap; 1.9700" Free Height
8	Spring	FP-VS468	2.3120" Free Height
	CAMSHAFT GROUP		
QTY	TIMING	PART NO. SIZI	DESCRIPTION
1	Cam Gear	FP-2214108	Replaces O.E. No. GB-45A; 48 Teeth
		/ 1' 1	· · · ·



### Hay Baler VE4, VE4D, VE41 Engs. Combine VE4, VE4D, VE41 Engs.

(cont.) 1.5L 91.9 L-HEAD V4, 3" Bore (Wisconsin Eng.)

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	CYLINDER COMPONENTS			
QTY	LINERS	PART NO.	SIZE	DESCRIPTION
4	Repair Sleeve	FP-SL7M	Std Only	3/32" wall, must be cut to correct length
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	FP-1394 *		1.000" max. length
4	Pin Bushing	1394		1.000" max. length
	CONNECTING RODS &			
QTY	BRGS.	PART NO.	SIZE	DESCRIPTION
4	Rod Pair	FP-3520CP	Std-10-20	
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Premium Set	FP-5090KX	Std-20-30	3-3/32, 1-3/16 (1 cyl. set)
4	Premium Set	5090KX + Std Only		3-3/32, 1-3/16 (1 cyl. set); When depleted use FP-5090KX
1	Standard Set	FP-968X	Std Only	3-3/32, 1-3/16
4	Standard Set	FP-5090X	Std Only	3-3/32, 1-3/16 (1 cyl. set)

Combine IXF3 Eng. (Gas) 1.6L 95 L-HEAD L4, 2.75" Bore (Hercules Eng.)

#### **CYLINDER COMPONENTS**

CONNECTING RODS & BRGS. SIZE DESCRIPTION PART NO. 4 Rod Pair FP-1450SB Std-10-20-30

#### 4 Hay Baler VF4, VF4D, VF41, VH4, VH4D, VH4DM Engs. Combine VF4, VF4D, VF41, VH4, VH4D, VH4DM Engs.

1.8L 108 L-HEAD V4, 3.25" Bore (Wisconsin Eng.)

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	CYL. HEAD & PARTS					
QTY	VALVE	PART NO.	SIZE	DESCRIPTION		
8	Intake	FP-V816		Exh. & Int.; 1.3130" Head Dia., .3085" Stem Dia., 4.7660" O.A.L.		
4	Exhaust	FP-V1326X		Optional-H/D; 1.2500" Head Dia., .3085" Stem Dia., 4.7710" O.A.L.		
16	Keeper	FP-VK144		1 groove; Square cut key groove		
16	Keeper	VK-144R		1 groove; Square cut key groove; Hardened		
16	Keeper, Bulk	FP-VK144B		1 groove; Square cut key groove; Carton of 1000		
QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION		
8	Exh. & Int.	FP-2451375	5	1.3795" OD, 1.1250" ID, .2636" Depth		
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION		
8	Guide	FP-VG635		Exc. VF Series Engs.; .3155" ID, 2.5000" O.A.L.		
8	Guide	FP-VG681		VF Series Engs.; .439" x 1.812"; .3133" ID, 1.8100" O.A.L.		
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION		
8	Spring	FP-VS793		Use w/FP-RC45 rotocap; VF Series Engs.; 1.9700" Free Height		
8	Spring	FP-VS468		2.3120" Free Height		
	CAMSHAFT GROUP					
QTY	TIMING	PART NO.	SIZE	DESCRIPTION		
1	Cam Gear	FP-2214108		VF4 & VH4D Engs.; O.E. No. GB-45A; 48 Teeth		
	CYLINDER COMPONENTS					
QTY	LINERS	PART NO.		DESCRIPTION		
4	Repair Sleeve	FP-SL11M	Std Only	3/32" wall, must be cut to correct length		
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION		
4	Cast Piston	FP-628CP	Std-20-30-40-60	Use w/FP5051X or FP5051KX ring set; Cast; 2-3/32", 1-3/16" Ring Groove, 1.500" CD, .7503" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 3 ring piston in sets only		
4	Cast Piston - Individual	FP-W628CP	Std-20-30-40-60	Use w/5051X or 5051KX ring set; Cast; 2-3/32", 1-3/16" Ring Groove, 1.500" CD, .7500" Pin Dia., Recessed Head .010" deep; Piston length 2.870"; Repl. 3 ring piston in sets only		
4	Pin Bushing	FP-1394 *		1.000" max. length		
4	Pin Bushing	1394		1.000" max. length		
	CONNECTING RODS &					
QTY	BRGS.	PART NO.		DESCRIPTION		
4	Rod Pair	FP-3520CP		VF4, VF4D Engs.		
4	Rod Pair	FP-3645CP	Std-10-20	VH4, VH4D, VH4DM Engs.		
QTY	PISTON RINGS	PART NO.		DESCRIPTION		
1	Premium Set			3-3/32, 1-3/16		
1	Standard Set	FP-10366X		VF4D Engs.; 3-5/64, 1-3/16		
1	Standard Set	FP-5051X	Std-20-30-40-60	3-3/32, 1-3/16		



Hay Baler VF4, VF4D, VF41, VH4, VH4D, VH4DM Engs. Combine VF4, VF4D, VF41, VH4,	4
VH4D, VH4DM Engs. (c	cont.)
1 91 109 L HEAD V/4 2 25" Para (Missonain Eng.)	

1.8L 108 L-HEAD V4, 3.25" Bore (Wisconsin Eng.)

	CYLINDER COMPONENTS (cont.)				
QTY 4	PISTON RINGS (cont.) Premium Single Cylinder Set	PART NO. W-5051KX20 20-30-	SIZE	<b>DESCRIPTION</b> 3-3/32, 1-3/16	
4	Standard Single Cylinder Set	W-5051X Std-30		3-3/32, 1-3/16	
				Wheel Tractor F124 Eng. (Gas) 5 2.1L 124 L-HEAD L4, 3" Bore (Continental Eng.)	
	CYL. HEAD & PARTS				
QTY	VALVE	PART NO.	SIZE		
4	Exhaust	FP-V800		Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L.	
4	Exhaust	FP-V954		Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L.	
4	Exhaust	FP-V1684		W/Single groove stem; Use w/rotocap; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L.	
8	Keeper	FP-VK142		Use w/drilled stem	
16	Keeper	VK-144		1 groove; Square cut key groove	
16	Keeper	VK-144R		1 groove; Square cut key groove; Hardened	
QTY	VALVE SEAT	PART NO. FP-2451348E1N	SIZE	<b>DESCRIPTION</b> 1.3480" OD, 1.0870" ID, .2005" Depth	
4	Exh. Int.	245-1625-1 Std Only		1.6300" OD, 1.0870 ID, .2005 Depth	
	VALVE GUIDE	PART NO.	SIZE	·	
8	Guide	FP-VG336		.3427" ID, 2.5600" O.A.L.	
QTY	VALVE SPRING		SIZE	DESCRIPTION	
8	Spring	FP-VS356		2.0000" Free Height	
	CAMSHAFT GROUP				
QTY	TIMING	-	SIZE		
1	Cam Gear	FP-2212600		Replacement O.E. No. 10281; 48 Teeth	
	ENGINE BLOCK & PARTS				
QTY 1	CAM BEARINGS Cam Set	-	SIZE d Only	DESCRIPTION	
'	CRANKSHAFT/OIL PUMP	11-1130M	a Only		
QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION	
1	Crank Gear	FP-2212603A		Repl. O.E. No. 10282; 24 Teeth	
1	Crank Gear	221-2603A +		Repl. O.E. No. 10282; 24 Teeth; When depleted use FP-2212603A	
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION	
1	Main Set	FP-4004M Std		W/Single flanged front brg.	
1	Main Set			W/Straight shell front brg.	
1	Main Set Thrust Washer Set			W/Straight shell front brg. & thrust washer Position 1; Use w/straight shell frt. main brg. set	
1	Thrust Washer Set			Position 1; Use w/Flanged main brg.	
	OIL PUMP			DESCRIPTION	
1	Oil Pump	FP-2244132	<b>-</b>	Cast Iron drive gear; Use w/Cast Iron cams; 7 1/8" from flange to end of shaft; Incl. screen	
1	Oil Pump	FP-2244137		Steel drive gear w/groove at pin; Use w/Steel cams; 7-1/8" from flange to end of shaft; Incl. pin	
	CYLINDER COMPONENTS				
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION	
4	Pin Bushing	8649XAS		Forging No. F400D-502; Full round, thin wall .0055" O/S OD	
4	Pin Bushing	8649XA		bushing Forging No. F400D-502; Full round, thin wall bushing w/.9150" OD	
4	Pin Bushing	8649V		Forging No. F400D-502; Split type, thin wall bushing w/.9135" OD	
4	Pin Bushing	8649V20		Forging No. F400D-502; Split type, thin wall bushing w/.9135" OD & .020" extra bore stock	
4	Pin Bushing	FP-9324X		Full round, heavy wall bushing w/1.0625" OD; Forging No. F400D-500	
	CONNECTING RODS &				
<b>QTY</b> 2	BRGS. Rod Pair	PART NO. FP-9320CPA Std-2- 10-20-30-40	SIZE	DESCRIPTION Position 1-3	
	(continued on next page)				



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5 (cor	5 Wheel Tractor F124 Eng. (Gas) (cont.) 2.1L 124 L-HEAD L4, 3" Bore (Continental Eng.)				
	CYLINDER COMPONENTS (cont.)				
<b>QTY</b> 2	CONNECTING RODS & BRGS. (cont.) Rod Pair	PART NO. SIZE FP-9320CP Std-10-20-30-40	DESCRIPTION Position 2-4		
<b>QTY</b> 1 1	PISTON RINGS Premium Set Standard Set	FP-918KX Std Only	<b>DESCRIPTION</b> 3-1/8, 1-1/4 3-1/8, 1-1/4		
4	Standard Set Standard Single Cylinder Set	W-918X Std Only	3-1/8, 1-1/4		
6	6 Hay Baler VA124, 124 Engs. (Gas). Combine VA124, W106, 124 Engs. (Gas). Wheel Tractor VA124, W106, 124 Engs. (Gas). 2.1L 124 L4, 3.25" Bore				
	CYL. HEAD & PARTS				
4 4 16	VALVE Intake Exhaust Keeper	PART NO. SIZE FP-V1053 FP-V1052 FP-A30004	<b>DESCRIPTION</b> 1.3280" Head Dia., .3411" Stem Dia., 4.9570" O.A.L. 1.2030" Head Dia., .3387" Stem Dia., 4.9830" O.A.L. 1 groove; Square cut key groove		
<b>QTY</b> 4 4	VALVE SEAT Exh. Int.	PART NO.         SIZE           FP-2451348E1N         245-1437-3 Std Only	<b>DESCRIPTION</b> 1.3480" OD, 1.0870" ID, .2005" Depth 1.4425" OD, 1.1880" ID, .2160" Depth		
<b>QTY</b> 8	VALVE GUIDE Guide	PART NO. SIZE FP-VG457	<b>DESCRIPTION</b> .3430" ID, 2.6870" O.A.L.		
8	VALVE SPRING Spring	PART NO. SIZE FP-A30025	DESCRIPTION		
4	VALVE MISC. Rotocap Assy.	FP-RC117A	DESCRIPTION		
QTY 8	VALVE SEAL Valve Stem Seal	PART NO. SIZE ST-2001	DESCRIPTION Positive type; Installation requires valve guide machining; Rubber/PTFE		
8	Valve Stem Seal Bulk	ST-2001BC	Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE		
	ENGINE BLOCK & PARTS				
QTY 1	CAM BEARINGS Cam Set	PART NO. SIZE FP-1227M Std Only	DESCRIPTION		
	CRANKSHAFT/OIL PUMP				
QTY 1	MAIN BEARINGS Main Set	PART NO.         SIZE           FP-768M         Std-10-20-30	DESCRIPTION		
	CYLINDER COMPONENTS				
<b>QTY</b> 4 4	LINERS Liner w/Sealing Rings Sleeve Assy.	FP-SO1776 Std Only	<b>DESCRIPTION</b> OVERBORE To 3.375"; Incl. (2) FP-SLR1640 sealing rings. OVERBORE To 3.375"		
QTY 4	PISTONS Cast Piston	PART NO. SIZE FP-1776P Std Only	DESCRIPTION  OVERBORE to 3.375". Use w/FP-5456KX ring set; Cast; 3-1/8", 1-1/4" Ring Groove, 2.187" CD, .8600" Pin Dia., Flat Head - 6.5:1 C.R.		
4	Pin Bushing	FP-9324X			
QTY 4	CONNECTING RODS & BRGS. Rod Pair	PART NO. SIZE FP-9320CPA Std-2- 10-20-30-40	DESCRIPTION		
	PISTON RINGS		DESCRIPTION OVERDODE TO COTE 1 O 4/2 4 4/4		
1 1 4	Premium Set Premium Set Premium Single Cylinder Set		OVERBORE To 3.375"; 3-1/8, 1-1/4 3-1/8, 1-1/4 OVERBORE To 3.375"; 3-1/8, 1-1/4		
7	7 Combine G126, 126 Engs. (Gas). Wheel Tractor G126, 126 Engs. (Gas). 2.1L 126 L4, 3.125" Bore				
CYL. HEAD & PARTS					
	VALVE		DESCRIPTION		
4 4 16	Intake Exhaust Keeper	FP-V1053 FP-V1052 FP-A30004	1.3280" Head Dia., .3411" Stem Dia., 4.9570" O.A.L. 1.2030" Head Dia., .3387" Stem Dia., 4.9830" O.A.L. 1 groove; Square cut key groove		
		(continued on no			



			<b>Case Co.</b> , C
	Combine (	G126, 126 Engs. (Ga	s). Wheel Tractor G126, 126 Engs. (Gas). 7 2.1L 126 L4, 3.125" Bore (cont.)
	CYL. HEAD & PARTS (cont.)		
QTY 4	VALVE SEAT Int.	<b>PART NO.</b> SIZE 245-1437-3 Std Only	<b>DESCRIPTION</b> 1.4425" OD, 1.1880" ID, .2160" Depth
<b>QTY</b> 4 4	VALVE GUIDE Guide Guide	PART NO. SIZE FP-VG842 FP-VG457	<b>DESCRIPTION</b> Exh.; .3434" ID, 2.4400" O.A.L. Int.; .3430" ID, 2.6870" O.A.L.
QTY 4	VALVE SPRING Spring	PART NO. SIZE FP-A30025	DESCRIPTION Int.
QTY 4	VALVE MISC. Rotocap Assy.	PART NO. SIZE FP-RC117A	DESCRIPTION
	ENGINE BLOCK & PARTS		
QTY 1	CAM BEARINGS Cam Set	PART NO. SIZE FP-1227M Std Only	DESCRIPTION
	CRANKSHAFT/OIL PUMP		
<b>QTY</b> 1	MAIN BEARINGS Main Set	PART NO.         SIZE           FP-4154M         Std-10-20-30	DESCRIPTION
	CYLINDER COMPONENTS		
QTY 4	PISTONS Pin Bushing	PART NO. SIZE FP-9324X	DESCRIPTION
QTY 4	CONNECTING RODS & BRGS. Rod Pair	PART NO. SIZE FP-9320CPA Std-2- 10-20-30-40	DESCRIPTION
		2	Hay Baler VM4 Eng. 2.2L 132.7 L-HEAD V4, 3.25" Bore (Wisconsin Eng.)
	CYL. HEAD & PARTS		
<b>QTY</b> 8 4 16	VALVE Intake Exhaust Keeper	PART NO. SIZE FP-V818 FP-V1676X FP-VK144	DESCRIPTION Exh. & Int.; 1.5630" Head Dia., .3089" Stem Dia., 6.3346" O.A.L. Optional; 1.5570" Head Dia., .3085" Stem Dia., 6.3330" O.A.L. Exh. & Int.; 1 groove; Square cut key groove
	CRANKSHAFT/OIL PUMP		zan a ma, i groots, equals surrey greets
	MAIN BEARINGS Cup Taper Brg.	PART NO. SIZE 453A	DESCRIPTION Position 1-2; Tapered roller brg. cup
	CYLINDER COMPONENTS		
<b>QTY</b> 4 4	PISTONS Pin Bushing Pin Bushing	PART NO. SIZE FP-1394 * 1394	DESCRIPTION 1.000" max. length 1.000" max. length
		2.2L 1	Combine FK Eng. Wheel Tractor FK Eng. 9 33 L-HEAD L4 (Early), 3.25" Bore (Waukesha Eng.)
	CYL. HEAD & PARTS		
QTY 4	VALVE Exhaust	FP-V713	<b>DESCRIPTION</b> 1.3490" Head Dia., .3095" Stem Dia., 4.4690" O.A.L.
16 <b>QTY</b> 8	Keeper VALVE GUIDE Guide	PART NO. SIZE FP-VG296	<b>DESCRIPTION</b> .3135" ID, 2.5000" O.A.L.
	CYLINDER COMPONENTS		, , , , , , , , , , , , , , , , , , , ,
	LINERS		DESCRIPTION
4 QTY 4	Repair Sleeve PISTONS Cast Piston	PART NO. SIZE	3/32" wall, must be cut to correct length  DESCRIPTION  Cast; 3-3/32", 1-3/16" Ring Groove, 1.750" CD, .8750" Pin Dia., Flat Head - 6.5:1 C.R.; Cast iron 4 ring piston; Repl. O.E. Nos.
4	Pin Bushing	FP-9629X	alum. pistons 68304A, 68304B; Use in sets only Bushing w/1/16" dia. oil hole
<b>QTY</b> 1 1	PISTON RINGS Premium Set Standard Set	PART NO.         SIZE           FP-5051KX         Std-20-30-40-60           FP-617X         Std Only	<b>DESCRIPTION</b> 3-3/32, 1-3/16 2-1/8, 1-3/16
1	Standard Set	FP-5051X Std-20-30-40-60	3-3/32, 1-3/16



**9** Combine **FK Eng.** Wheel Tractor **FK Eng.** (cont.) 2.2L 133 L-HEAD L4 (Early), 3.25" Bore (Waukesha Eng.)

CYLINDER	<b>COMPONENTS</b> (cont.)
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QTY	PISTON RINGS (cont.)	PART NO.	SIZE	DESCRIPTION	
4	Premium Single Cylinder Set	W-5051KX20 20-30-		3-3/32, 1-3/16	
		60			
4	Standard Single Cylinder Set	W-5051X Std-30		3-3/32, 1-3/16	

#### 10 Combine FK Eng. Wheel Tractor FK Eng.

2.2L 133 L4, 3.25" Bore (Waukesha Eng.)

#### **CYL. HEAD & PARTS**

4	VALVE Exhaust	PART NO. SIZ FP-V713	<b>DESCRIPTION</b> 1.3490" Head Dia., .3095" Stem Dia., 4.4690" O.A.L.
16	Keeper	FP-VK123	
QTY	VALVE GUIDE	PART NO. SIZ	DESCRIPTION
8	Guide	FP-VG296	.3135" ID, 2.5000" O.A.L.
	CYLINDER COMPONENTS		
QTY	LINERS	PART NO. SIZ	DESCRIPTION
4	Repair Sleeve	FP-SL11M Std On	y 3/32" wall, must be cut to correct length
QTY	PISTONS	PART NO. SIZ	DESCRIPTION
1 4	Cast Piston	FP-C1549P40	0 Cast; 3-3/32", 1-3/16" Ring Groove, 1.750" CD, .8750" Pin Dia.,
4	Casi Fision	FP-C1549P40 2	
4	Cast Fision	FP-C1549P40	Flat Head - 6.5:1 C.R.; Cast iron 4 ring piston; Repl. O.E. Nos.
4			Flat Head - 6.5:1 C.R.; Cast iron 4 ring piston; Repl. O.E. Nos. alum. pistons 68304A, 68304B; Use in sets only
4	Pin Bushing	FP-9629X	Flat Head - 6.5:1 C.R.; Cast iron 4 ring piston; Repl. O.E. Nos. alum. pistons 68304A, 68304B; Use in sets only Bushing w/1/16" dia. oil hole
	Pin Bushing PISTON RINGS	FP-9629X PART NO. SIZ	Flat Head - 6.5:1 C.R.; Cast iron 4 ring piston; Repl. O.E. Nos. alum. pistons 68304A, 68304B; Use in sets only Bushing w/1/16" dia. oil hole  DESCRIPTION
	Pin Bushing	FP-9629X	Flat Head - 6.5:1 C.R.; Cast iron 4 ring piston; Repl. O.E. Nos. alum. pistons 68304A, 68304B; Use in sets only Bushing w/1/16" dia. oil hole  DESCRIPTION
	Pin Bushing PISTON RINGS	FP-9629X  PART NO. SIZ FP-5051KX Std-20-30-40-6	Flat Head - 6.5:1 C.R.; Cast iron 4 ring piston; Repl. O.E. Nos. alum. pistons 68304A, 68304B; Use in sets only Bushing w/1/16" dia. oil hole  DESCRIPTION
	Pin Bushing PISTON RINGS Premium Set	FP-9629X  PART NO. SIZ FP-5051KX Std-20-30-40-6	Flat Head - 6.5:1 C.R.; Cast iron 4 ring piston; Repl. O.E. Nos. alum. pistons 68304A, 68304B; Use in sets only Bushing w/1/16" dia. oil hole  DESCRIPTION  3-3/32, 1-3/16  y 2-1/8, 1-3/16

3-3/32, 1-3/16

# Wheel Tractor **F140 Eng. (Gas)** 2.3L 140 L-HEAD L4, 3.1875" Bore (Continental Eng.)

W-5051X Std-30

#### **CYL. HEAD & PARTS**

Standard Single Cylinder Set

QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-V1748		Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L.
4	Exhaust	FP-V800		Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L.
4	Exhaust	FP-V954		Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L.
4	Exhaust	FP-V1684		Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L.
8	Keeper	FP-VK142		For drilled stem
16	Keeper	FP-VK144		1 groove; Square cut key groove
16	Keeper	VK-144R		1 groove; Square cut key groove; Hardened
16	Keeper, Bulk	FP-VK144B		1 groove; Square cut key groove; Carton of 1000
QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	245-1437-3N Std Only		Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth
4	Exh.	FP-24513753		1.3795" OD, 1.0625" ID, .1855" Depth
4	Exh.	<b>245-1437-3</b> Std Only		1.4425" OD, 1.1880" ID, .2160" Depth
4	Int.	<b>245-1625-1N</b> Std Only		Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
4	Int.	FP-2451348E1N		1.3480" OD, 1.0870" ID, .2005" Depth
4	Int.	<b>245-1625-1</b> Std Only		1.6300" OD, 1.3750" ID, .2160" Depth
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	FP-VG418		Exc. Rototype; .3425" ID, 2.3100" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-VS356		2.0000" Free Height
	CAMSHAFT GROUP			
QTY	TIMING	PART NO.	SIZE	DESCRIPTION
1	Cam Gear	FP-2212601		F140, & F4140 Engs.; Governor Type; 48 Teeth
1	Cam Gear	221-2601 +		F140, & F4140 Engs.; Governor Type; 48 Teeth; When depleted use FP-2212601
1	Cam Gear	FP-2212600		F140, & F4140 Engs.; Replacement O.E. No. F400H310; 48 Teeth



Wheel Tractor <b>F140 Eng. (Gas)</b> 2.3L 140 L-HEAD L4, 3.1875" Bore (Continental Eng.) (c	
ENGINE BLOCK & PARTS	

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	ENGINE BLOCK & PARTS			
QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Kit Gasket Set	260-1355	_	Compl.; Timing cover gskt. & seal not incl.
1	Kit Gasket Set	FP-2601355 +		Compl.; Timing cover gskt. & seal not incl.; When depleted use
				260-1355
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-1158M	Std Only	
	CRANKSHAFT/OIL PUMP			
QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crank Gear	FP-2212603A		F140, & F4140 Engs.; Repl. O.E. No. F400H326; 24 Teeth
1	Crank Gear	221-2603A +		F140, & F4140 Engs.; Repl. O.E. No. F400H326; 24 Teeth;
				When depleted use FP-2212603A
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-4004M	Std-10-20	W/Single flanged front brg.
1	Main Set	FP-4005M	Std-10-20	W/Straight shell front brg.
1	Main Set	FP-6632M	Std-10-20-30	W/Straight shell front brg. & thrust washer
1	Thrust Washer Set	FP-9811BFA	Std Only	
1	Thrust Washer Set	FP-9811BF	Std Only	Position 1; Use w/Flanged main brg.
	CYLINDER COMPONENTS			
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Pin Bushing	8649XAS		Forging No. F400D-502; Full round, thin wall .0055" O/S OD
				bushing
4	Pin Bushing	8649XA		Forging No. F400D-502; Full round, thin wall bushing w/.9150"
				OD
4	Pin Bushing	8649V		Forging No. F400D-502; Split type, thin wall bushing w/.9135" OD
4	Pin Bushing	8649V20		Forging No. F400D-502; Split type, thin wall bushing w/.9135" OD & .020" extra bore stock
4	Pin Bushing	FP-9324X		Full round, heavy wall bushing w/1.0625" OD; Forging No.
				F400D-500
	CONNECTING RODS &			
	BRGS.	PART NO.	SIZE	
2	Rod Pair	FP-9320CPA	Std-2-	Position 1-3
	D 15:	10-20-30-40		B 33 04
2	Rod Pair	<b>FP-9320CP</b> S		
		PART NO.	SIZE	DESCRIPTION
1	Standard Set	FP-948X	Std Only	Check piston grooving before supplying ring set; 3-1/8, 1-1/4
1	Standard Set	FP-5036X	Std Only	Check piston grooving before supplying ring set; 3-1/8, 1-3/16

## Combine G148, 148, 148G Engs. (Gas or LPG). Wheel Tractor G148, 148, 148G Engs. (Gas **or LPG).** 2.4L 148 L4 (G148). 3.375" Bore

				2.4L 148 L4 (G148), 3.375 Bore
	CYL. HEAD & PARTS			
QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-V1053		1.3280" Head Dia., .3411" Stem Dia., 4.9570" O.A.L.
4	Exhaust	FP-V1052		1.2030" Head Dia., .3387" Stem Dia., 4.9830" O.A.L.
16	Keeper	FP-A30004		1 groove; Square cut key groove
QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
4	Exh.	FP-2451348E1N		1.3480" OD, 1.0870" ID, .2005" Depth
4	Int.	245-1437-3 Std Only		1.4425" OD, 1.1880" ID, .2160" Depth
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	FP-VG457		.3430" ID, 2.6870" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
4	Spring	FP-VS581		Exh.; 2.6400" Free Height
4	Spring	FP-A30025		Int.
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	ST-2001		Positive type; Installation requires valve guide machining; Rubber/PTFE
8	Valve Stem Seal Bulk	ST-2001BC		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
	ENGINE BLOCK & PARTS			
QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Kit Gasket Set	260-1339		Compl., incl. RMB seal & valve stem seals
1	Kit Gasket Set	FP-2601339 +		Compl., Incl. RMB seal & valve stem seals; When depleted use 260-1339



<b>1</b> 2 (cor	nt.) or LPG).	Engs. (Gas or LPG)	. Wheel Tractor G148, 148, 148G Engs. (Gas			
	2.4L 148 L4 (G148), 3.375" Bore					
	ENGINE BLOCK & PARTS (cont.)					
QTY 1	CAM BEARINGS Cam Set	PART NO. SIZE FP-1227M Std Only	DESCRIPTION			
	CRANKSHAFT/OIL PUMP					
QTY	SEALS - FRONT CRANK	PART NO. SIZE	DESCRIPTION			
1	Redi-Sleeve Oil Seal	FP-99210 FP-A39110				
	SEALS - REAR CRANK		DESCRIPTION			
1	Oil Seal	FP-A51339				
1	Redi-Sleeve	FP-99400				
QTY 1	MAIN BEARINGS Main Set	PART NO.         SIZE           FP-4154M         Std-10-20-30	DESCRIPTION			
	CYLINDER COMPONENTS					
	LINERS		DESCRIPTION			
4	Liner w/Sealing Rings Sleeve Assy.	<b>FP-SO1776</b> Std Only <b>FP-SL2684</b> Std Only	Incl. (2) FP-SLR1640 sealing rings.			
	PISTONS Pin Bushing		DESCRIPTION			
	CONNECTING RODS &	FF-9324X				
QTY	BRGS.		DESCRIPTION			
4	Rod Pair	<b>FP-9320CPA</b> Std-2-10-20-30-40				
QTY	PISTON RINGS		DESCRIPTION			
1	Premium Set		3-1/8, 1-1/4			
1 1	Premium Set Standard Set		3-3/32, 1-1/4 3-3/32, 1-1/4			
4	Premium Single Cylinder Set	W-5456KX Std Only	3-1/8, 1-1/4			
4	Premium Single Cylinder Set	W-5579KX Std Only	3-3/32, 1-1/4			
	KITS					
QTY 1	OVERHAUL KIT Tractor Overhaul Kit	PART NO. SIZE FP-KST2684A	DESCRIPTION Exc. Model 310G			
1:	13 Wheel Tractor G148B, 148B Engs. (Gas or LPG)					
	2.4L 148 L4 (G148B), 3.375" Bore	•				
	CYL. HEAD & PARTS					
QTY 4	VALVE Intake	PART NO. SIZE FP-V1053	<b>DESCRIPTION</b> 1.3280" Head Dia., .3411" Stem Dia., 4.9570" O.A.L.			
4	Exhaust	FP-V1052	1.2030" Head Dia., .3387" Stem Dia., 4.9830" O.A.L.			
16	Keeper	FP-A30004	1 groove; Square cut key groove			
QTY 4	VALVE SEAT Exh.	PART NO. SIZE FP-2451348E1N	<b>DESCRIPTION</b> 1.3480" OD, 1.0870" ID, .2005" Depth			
4	Int.	245-1437-3 Std Only	1.4425" OD, 1.1880" ID, .2160" Depth			
QTY 8	VALVE GUIDE Guide	PART NO. SIZE FP-VG457	<b>DESCRIPTION</b> .3430" ID, 2.6870" O.A.L.			
	VALVE SPRING	PART NO. SIZE				
4	Spring	FP-VS581	Exh.; 2.6400" Free Height			
4 <b>OTV</b>	Spring	FP-A30025	Int.			
QTY 8	VALVE SEAL Valve Stem Seal	PART NO. SIZE ST-2001	Positive type; Installation requires valve guide machining;			
8	Valve Stem Seal Bulk	ST-2001BC	Rubber/PTFE Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE			
	ENGINE BLOCK & PARTS					
	GASKET SETS	PART NO. SIZE				
1	Kit Gasket Set Kit Gasket Set	260-1339 FP-2601339 +	Compl., incl. RMB seal & valve stem seals Compl., Incl. RMB seal & valve stem seals; When depleted use 260-1339			
QTY 1	CAM BEARINGS Cam Set	PART NO. SIZE FP-1227M Std Only				
		(continued on no				



			<u> </u>
		Wheel	Tractor G148B, 148B Engs. (Gas or LPG) 13 2.4L 148 L4 (G148B), 3.375" Bore (cont.)
	CRANKSHAFT/OIL PUMP		
<b>QTY</b> 1 1	SEALS - FRONT CRANK Redi-Sleeve Oil Seal	PART NO. SIZE FP-99210 FP-A39110	DESCRIPTION
<b>QTY</b> 1 1	SEALS - REAR CRANK Oil Seal Redi-Sleeve	PART NO. SIZE FP-A51339 FP-99400	DESCRIPTION
QTY 1	MAIN BEARINGS Main Set	PART NO.         SIZE           FP-4149M         Std-10-20-30	DESCRIPTION
	CYLINDER COMPONENTS		
4	LINERS Liner w/Sealing Rings Sleeve Assy.	PART NO.         SIZE           FP-SO1776         Std Only           FP-SL2684         Std Only	Incl. (2) FP-SLR1640 sealing rings.
QTY 4	PISTONS Pin Bushing	PART NO. SIZE FP-9324X	DESCRIPTION
QTY 4 4 4 4	CONNECTING RODS & BRGS. Rod Pair Rod Pair Rod Pair Rod Pair Rod Pair	PART NO.         SIZE           FP-A46050         STD           FP-A46052         10           FP-A46053         20           FP-A46054         30	
QTY 1 1 1 4 4	PISTON RINGS Premium Set Premium Set Standard Set Premium Single Cylinder Set Premium Single Cylinder Set	FP-5456KX         Std Only           FP-5579KX         Std Only	<b>DESCRIPTION</b> 3-1/8, 1-1/4 3-3/32, 1-1/4 3-3/32, 1-1/4 3-1/8, 1-1/4 3-3/32, 1-1/4
	KITS		
QTY 1	OVERHAUL KIT Tractor Overhaul Kit	PART NO. SIZE FP-KST2684C	DESCRIPTION Exc. Model 310G
		Combine SE I	Eng. (Gas). Wheel Tractor SE Eng. (Gas). 2.5L 154 L4, 3.5" Bore
	CYL. HEAD & PARTS		
<b>QTY</b> 16	VALVE Keeper	PART NO. SIZE FP-VK123	DESCRIPTION
<b>QTY</b> 4 4	VALVE SEAT Exh. Int.	PART NO.       SIZE         245-1375-4       Std Only         245-1500-1       Std Only	<b>DESCRIPTION</b> 1.3795" OD, 1.1250" ID, .1855" Depth 1.5045" OD, 1.2500" ID, .2160" Depth
8	VALVE GUIDE Guide	PART NO. SIZE FP-VG386	<b>DESCRIPTION</b> .3128" ID, 2.7500" O.A.L.
QTY 8	VALVE SPRING Spring	PART NO. SIZE FP-VS332	<b>DESCRIPTION</b> 2.0310" Free Height
	CYLINDER COMPONENTS		
1 1 1 1 4 4	PISTON RINGS Premium Set Premium Set Standard Set Standard Set Premium Single Cylinder Set Premium Single Cylinder Set Standard Single Cylinder Set	FP-5504KX Std Only FP-934KX Std-20-30-60 FP-5504X Std Only	DESCRIPTION  OVERBORE To 3.625"; 3-3/32, 1-3/16  3-1/8, 1-3/16  OVERBORE To 3.625"; 3-3/32, 1-3/16  3-1/8, 1-3/16  OVERBORE To 3.625"; 3-3/32, 1-3/16  3-1/8, 1-3/16  3-1/8, 1-3/16
		Harvester	<b>V460D, V461D, VG4D, VP4, VP4D Engs.</b> 2.5L 154 L-HEAD V4, 3.5" Bore (Wisconsin Eng.)
	CYL. HEAD & PARTS		
QTY 4	VALVE Intake	PART NO. SIZE FP-V818	<b>DESCRIPTION</b> VG4D & VP4D Engs.; 1.5630" Head Dia., .3089" Stem Dia., 6.3346" O.A.L.
4	Exhaust	FP-V1676X	VG4D & VP4D Engs.; 1.5570" Head Dia., .3085" Stem Dia., 6.3330" O.A.L.
16	Keeper	FP-VK144	Exc. V460D, V461D Engs.; 1 groove; Square cut key groove



<b>1</b> ;	15 Harvester V460D, V461D, VG4D, VP4, VP4D Engs. (cont.) 2.5L 154 L-HEAD V4, 3.5" Bore (Wisconsin Eng.)				
	CYL. HEAD & PARTS (cont.)				
<b>QTY</b> 16	VALVE (cont.) Keeper	PART NO. SIZE VK-144R	DESCRIPTION Exc. V460D, V461D Engs.; 1 groove; Square cut key groove;		
16 16	Keeper Keeper	FP-23507238 VK-115	Hardened V460D, V461D Engs.; 1 groove; Square cut key groove V460D, V461D Engs.; 1 groove; Square cut key groove; Carton		
16	Keeper, Bulk	FP-VK144B	pack 32 Exc. V460D, V461D Engs.; 1 groove; Square cut key groove; Carton of 1000		
16	Keeper, Bulk	VK-115B	V460D, V461D Engs.; 1 groove; Square cut key groove; Carton of 1000		
QTY 8	VALVE GUIDE Guide	PART NO. SIZE VG-855	<b>DESCRIPTION</b> VG4D & VP4D Engs.; .3130" ID, 2.5000" O.A.L.		
QTY 8	VALVE SPRING Spring	PART NO. SIZE FP-VS468	DESCRIPTION AP4 Engs.; 2.3120" Free Height		
	CRANKSHAFT/OIL PUMP				
<b>QTY</b> 1 2	MAIN BEARINGS Plain Main Brg. Cone Taper Brg. Cup Taper Brg.		DESCRIPTION  Position Center; V-460D, V-461D, V-465D Engs. Position Ends; V-460D, V-461D & V-465D Engs. Tapered roller brg. cone Position Ends; V-460D, V-461D & V-465D Engs. Tapered roller		
2	Cup Taper Brg.	453A	brg. cup Position 1-2; AM-4, AM-41, AP-4, AP-41, VG4D, VM4 & VP4 Engs. Tapered roller brg. cup		
	CYLINDER COMPONENTS				
QTY 4	LINERS Repair Sleeve	PART NO. SIZE SL-15M Std Only	DESCRIPTION 3/32" wall, Must be cut to correct length		
<b>QTY</b> 4 4	PISTONS Pin Bushing Pin Bushing	PART NO. SIZE FP-1394 * 1394	DESCRIPTION VG4D & VP4 Engs.; 1.000" max. length VG4D & VP4 Engs.; 1.000" max. length		
	CONNECTING RODS & BRGS. Rod Pair Rod Pair	FP-3220CP Std-10-20-30	DESCRIPTION  V-460D, V-461D, V-465D Engs.; w/2.1232-2.1240" std. shaft size  VG4D, VM4, VP4 Engs.		
QTY 1 4 1 4 4	PISTON RINGS Premium Set Premium Set Standard Set Premium Single Cylinder Set Standard Single Cylinder Set	<b>FP-934KX</b> Std-20-30-60 <b>FP-5091KX</b> Std-30	DESCRIPTION  VG4D, VP4, VP4D Engs.; 3-1/8, 1-3/16  VG4D, VP4, VP4D Engs.; 3-1/8, 1-3/16 (1 cyl. set)  VG4D, VP4, VP4D Engs.; 3-1/8, 1-3/16  VG4D, VP4, VP4D Engs.; 3-1/8, 1-3/16  VG4D, VP4, VP4D Engs.; 3-1/8, 1-3/16		
10	6 Wheel Tractor <b>GD157 Eng.</b> 2.6L 157 OHV Diesel L4, 3.4375"				
	CYLINDER COMPONENTS				
<b>QTY</b> 1 4	PISTON RINGS Premium Set Premium Single Cylinder Set		DESCRIPTION  3-1/8, 1-1/4 3-1/8, 1-1/4		
1	<ul><li>Wheel Tractor G159, G159I</li><li>2.6L 159 L4, 3.5" Bore</li></ul>	3, 159, 159B Engs. (	(Gas or LPG)		
	CYL. HEAD & PARTS				
<b>QTY</b> 4 4 16	VALVE Intake Exhaust Keeper	PART NO. SIZE FP-V4075 FP-V4097 FP-A30004	DESCRIPTION  1.4173" Head Dia., .3409" Stem Dia., 5.2913" O.A.L.  1.2697" Head Dia., .3386" Stem Dia., 5.3272" O.A.L.  1 groove; Square cut key groove		
<b>QTY</b> 4 4	VALVE GUIDE Guide Guide	PART NO. SIZE FP-VG457 FP-VG842	DESCRIPTION Exh.; .3430" ID, 2.6870" O.A.L. Int.; .3434" ID, 2.4400" O.A.L.		
QTY 4	VALVE MISC. Rotocap Assy.	PART NO. SIZE FP-RC117A	DESCRIPTION		
<b>QTY</b> 8	VALVE SEAL Valve Stem Seal	PART NO. SIZE ST-2001	DESCRIPTION  Exh. & Int.; Positive type; Installation requires valve guide machining; Rubber/PTFE		
4	Valve Stem Seal	FP-G46851	Int.; Rubber		



				Jacob Jon, Jin
		Wheel Tra	ctor <b>G15</b> 9	, G159B, 159, 159B Engs. (Gas or LPG) 17 2.6L 159 L4, 3.5" Bore (cont.)
	CYL. HEAD & PARTS (cont.)			
QTY 8	VALVE SEAL (cont.) Valve Stem Seal Bulk	PART NO. ST-2001BC	SIZE	<b>DESCRIPTION</b> Exh. & Int.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
	ENGINE BLOCK & PARTS			
QTY 1	CAM BEARINGS Cam Set	PART NO. FP-1227M	SIZE Std Only	DESCRIPTION
	CRANKSHAFT/OIL PUMP			
<b>QTY</b> 1 1	SEALS - FRONT CRANK Redi-Sleeve Oil Seal	PART NO. FP-99210 FP-A39110	SIZE	DESCRIPTION
<b>QTY</b> 1 1	SEALS - REAR CRANK Oil Seal Redi-Sleeve	PART NO. FP-A51339 FP-99400	SIZE	DESCRIPTION
QTY 1	MAIN BEARINGS Main Set	PART NO. FP-4149M	<b>SIZE</b> Std-10-20-30	DESCRIPTION
	CYLINDER COMPONENTS			
QTY 4 4 4 4	CONNECTING RODS & BRGS. Rod Pair Rod Pair Rod Pair Rod Pair Rod Pair	PART NO. FP-A46050 FP-A46052 FP-A46053 FP-A46054	<b>SIZE</b> STD 10 20 30	DESCRIPTION
			2.6	Wheel Tractor F162 Eng. (Gas) 18 L 162 L-HEAD L4, 3.4375" Bore (Continental Eng.)
	ENGINE BLOCK & PARTS			
QTY 1	CAM BEARINGS Cam Set	PART NO. FP-1158M	SIZE Std Only	DESCRIPTION
	CRANKSHAFT/OIL PUMP			
QTY 1 1 1 1	MAIN BEARINGS  Main Set  Main Set  Main Set  Thrust Washer Set  Thrust Washer Set	PART NO. FP-4004M FP-4005M FP-6632M FP-9811BFA FP-9811BF	Std-10-20 Std-10-20 Std-10-20-30	DESCRIPTION W/Single flanged front brg. W/Straight shell front brg. W/Straight shell front brg. & thrust washer Position 1; Use w/straight shell main brg. set Position 1; Use w/Flanged main brg.
	CYLINDER COMPONENTS	•••••	0.0 0)	· · · · · · · · · · · · · · · · · · ·
QTY 4 4 4 4 4	PISTONS Pin Bushing Pin Bushing Pin Bushing Pin Bushing Pin Bushing Pin Bushing	PART NO. 8649XAS 8649XA 8649V 8649V20 FP-9324X	SIZE	DESCRIPTION Forging No. F400D-502; Full round, thin wall .0055" O/S OD bushing Forging No. F400D-502; Full round, thin wall bushing w/.9150" OD Forging No. F400D-502; Split type, thin wall bushing w/.9135" OD Forging No. F400D-502; Split type, thin wall bushing w/.9135" OD & .020" extra bore stock Full round, heavy wall bushing w/1.0625" OD; Forging No. F400D-500
2	CONNECTING RODS & BRGS. Rod Pair	<b>PART NO. FP-9320CPA</b> S 10-20-30-40	6td-2-	DESCRIPTION Position 1-3
2	Rod Pair	<b>FP-9320CP</b> St		
			Whe	el Tractor <b>G164, 164 Engs. (Gas or LPG) 19</b> 2.7L 164 L4, 3.5625" Bore
	CYL. HEAD & PARTS			
<b>QTY</b> 4 16	VALVE Exhaust Keeper	PART NO. FP-V1052 FP-A30004	SIZE	DESCRIPTION Gas Engs.; 1.2030" Head Dia., .3387" Stem Dia., 4.9830" O.A.L. 1 groove; Square cut key groove
<b>QTY</b> 4 4	VALVE GUIDE Guide Guide	PART NO. FP-VG457 FP-VG842	SIZE	<b>DESCRIPTION</b> Exh.; L.P.G. Engs.; .3430" ID, 2.6870" O.A.L. Int.; Gas Engs.; .3434" ID, 2.4400" O.A.L.
			tinued on nev	



	30 <b>3</b> 01, 3111			
<b>1</b> (cor	Wheel Tractor <b>G164</b> , <b>164</b> Ent.) 2.7L 164 L4, 3.5625" Bore	ngs. (Gas o	or LPG)	
	CYL. HEAD & PARTS (cont.)			
QTY 4	VALVE SPRING Spring	PART NO. FP-A30025	SIZE	DESCRIPTION Int.
8	VALVE SEAL Valve Stem Seal	PART NO. ST-2001	SIZE	<b>DESCRIPTION</b> Positive type; Installation requires valve guide machining; Rubber/PTFE
4 8	Valve Stem Seal Valve Stem Seal Bulk	FP-G46851 ST-2001BC		Int.; Rubber Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
	ENGINE BLOCK & PARTS			
QTY 1	CAM BEARINGS Cam Set	PART NO. FP-1227M	SIZE Std Only	DESCRIPTION
	CRANKSHAFT/OIL PUMP			
QTY 1	MAIN BEARINGS Main Set	PART NO. FP-4149M	<b>SIZE</b> Std-10-20-30	DESCRIPTION
	CYLINDER COMPONENTS			
	CONNECTING RODS & BRGS. Rod Pair Rod Pair	PART NO. FP-A46050 FP-A46052	SIZE STD 10	DESCRIPTION
4	Rod Pair	FP-A46053	20	
4 <b>OTV</b>	Rod Pair	FP-A46054	30	DECODINATION
Q   Y 	PISTON RINGS Premium Set	PART NO. FP-5448KX	_	<b>DESCRIPTION</b> 3-3/32, 1-1/4
20	O Combine XAH Eng. 3.0L 186 L4, 3.625" Bore (Wauke	esha Eng.)		
	CYLINDER COMPONENTS			
QTY 4	PISTONS Pin Bushing	PART NO. FP-8944X	SIZE	DESCRIPTION
2	<ul> <li>Combine G188, G188B, 18</li> <li>Engs. (Gas).</li> <li>3.1L 188 L4 (G188B), 3.8125" Box</li> </ul>	-	gs. (Gas).	Wheel Tractor G188, G188B, 188, 188B
	CYL. HEAD & PARTS			
	VALVE	PART NO.	SIZE	DESCRIPTION
16 <b>QTY</b> 4	Keeper VALVE GUIDE Guide	FP-A30004 PART NO. FP-G2069	SIZE	1 groove; Square cut key groove  DESCRIPTION Int.
	VALVE SPRING Spring	PART NO. FP-A30025	SIZE	·
QTY 4	VALVE MISC. Rotocap Assy.	PART NO. FP-RC117A	SIZE	DESCRIPTION Exh.
<b>QTY</b> 8	VALVE SEAL Valve Stem Seal	PART NO. ST-2001	SIZE	Positive type; Installation requires valve guide machining; Rubber/PTFE
4 8	Valve Stem Seal Valve Stem Seal Bulk	FP-G46851 ST-2001BC		Int.; Rubber Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
	CRANKSHAFT/OIL PUMP			
<b>QTY</b> 1 1	SEALS - FRONT CRANK Redi-Sleeve Oil Seal	PART NO. FP-99210 FP-A39110	SIZE	DESCRIPTION
<b>QTY</b> 1 1	SEALS - REAR CRANK Oil Seal Redi-Sleeve	PART NO. FP-A51339 FP-99400	SIZE	DESCRIPTION
	CYLINDER COMPONENTS			
QTY 4	CONNECTING RODS & BRGS. Rod Pair	PART NO. FP-A46050	STD	DESCRIPTION
4	Rod Pair	FP-A46052	10	



Combine G188, G188B, 188, 188B Engs. (Gas). Wheel Tractor G188, G188B, 188, 188B 21 **Engs. (Gas).** (cont.) 3.1L 188 L4 (G188B), 3.8125" Bore

					0112 100 21 (d100B); 010 120 B010	
	CYLINDER COMPONENTS (cont.)					
QTY 4	CONNECTING RODS & BRGS. (cont.) Rod Pair Rod Pair	PART NO. FP-A46053 FP-A46054	<b>SIZE</b> 20 30	DESCRIPTION		

Combine G188D, 188, 188D Engs. (Diesel). Loader. Wheel Tractor G188D, 188, 188D Engs. (Diesel). Windrower G188D, 188, 188D Engs. (Diesel). Crawler Tractor G188D, 188, 188D Engs. (Diesel). Wheel Loader G188D, 188, 188D Engs. (Diesel). 3.1L 188 Diesel L4, 3.8125" Bore

				3.1L 188 Diesel L4, 3.8125" Bore
	CYL. HEAD & PARTS			
QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-A38422		
4	Exhaust	FP-A38423		
16	Keeper	FP-A30004		1 groove; Square cut key groove
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
4	Guide	FP-G2069		Exh.
4	Guide	FP-G2068		Int.
	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-A30025		
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
4	Rotocap Assy.	FP-RC117A		Exh.
QTY	VALVE SEAL	PART NO.	SIZE	
8	Valve Stem Seal	ST-2001		Positive type; Installation requires valve guide machining;
4	Valve Stem Seal	FP-G46851		Rubber/PTFE Int.; Rubber
8	Valve Stem Seal Bulk	ST-2001BC		Positive type; Installation requires valve guide machining; Carton
	Valvo otom ooai baix	0. 200.20		of 100; Rubber/PTFE
	ENGINE BLOCK & PARTS			•
OTV	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PGE207C	SIZE	Use w/large dia. (4.537") flange sleeve
i	Complete Overhaul Gasket Set	FP-PGE188EC		Use w/small dia. (4.458") flange sleeve
	CAM BEARINGS	PART NO.	SIZE	, ,
1	Cam Set	FP-A151075	_	W/Tach drive
1	Cam Set	FP-A41232		W/1.218" length on No. 5 brg.; Engs. w/o tach drive
	CRANKSHAFT/OIL PUMP			
QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99210		
1	Oil Seal	FP-A39110		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-A51339		
1	Redi-Sleeve	FP-99400		
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-4397M	Std-10-20-30	
1	Main Set	FP-4397M10	Std-10-20-30	
1 1	Main Set Main Set	FP-4397M20 FP-4397M30	Std-10-20-30 Std-10-20-30	
	CYLINDER COMPONENTS	11-4037W00	010 10 20 00	
OTY	i e e e e e e e e e e e e e e e e e e e	DARTNO	0175	DECORIDEION
4	LINERS Liner w/o Sealing Rings	<i>PART NO.</i> FP-A39006	SIZE	<b>DESCRIPTION</b> From Ser. No. 2656844; Flange Dia. 4.537"
4	Liner w/o Sealing Hings Liner w/o Sealing Rings	FP-A43009		To Ser. No. 2656843; Flange Dia. 4.458"
4	Liner w/Sealing Rings	FP-A39006WS	STD	From Ser. No. 2656844; Flange Dia. 4.537"
4	Liner w/Sealing Rings	FP-A43009WS		To Ser. No. 2656843; Flange Dia. 4.458"
4	Cylinder Kit Complete	FP-A151995	STD	From Ser. No. 2656844
4	Cylinder Kit Complete	FP-A37769	STD	To Ser. No. 2656843
8	Sealing Ring, Liner	FP-2385154		Use 2 per liner
	PISTONS	PART NO.	SIZE	
4	Piston Body w/o Pin	FP-A38424		3-ring piston; Replaces 4-ring piston in sets; Cast; 1-1/8, 1-3/32, 1-3/16 Ring Groove; Recessed Head .540" deep & 2.492" dia.
				w/2 valve reliefs; 17.5:1 C.R.
				11/L Valvo Tollolo, 17.0.1 O.11.



Combine G188D, 188, 188D Engs. (Diesel). Loader. Wheel Tractor G188D, 188, 188D Engs.
 (cont.) (Diesel). Windrower G188D, 188, 188D Engs. (Diesel). Crawler Tractor G188D, 188, 188D Engs. (Diesel). Wheel Loader G188D, 188, 188D Engs. (Diesel).
 3.1L 188 Diesel L4, 3.8125" Bore

	3.1L 188 Diesei L4, 3.8125" Bor	<u>e</u>		
	<b>CYLINDER COMPONENTS (cor</b>	nt.)		
QTY 4	PISTONS (cont.) Piston Kit w/Pin & Retainers	PART NO. FP-A38424WP	_	DESCRIPTION 3-ring piston; Replaces 4-ring piston in sets; Cast; 1-1/8, 1-3/32, 1-3/16 Ring Groove; Recessed Head .540" deep & 2.492" dia. w/2 valve reliefs; 17.5:1 C.R.
4 8 1	Pin Piston Pin Retainer Piston Pin Set	FP-A35770 FP-G46702 FP-A35771		1.250" Dia.  Incl. 4 Piston Pins and 8 Piston Pin Retainers
1 1 4	Pin Bushing Set Pin Bushing Set Pin Bushing	FP-G11953 FP-A136712 FP-A44038		Bushing w/1.240"length; Incl. 4 of FP-G49659 Bushing w/1.292"length; Incl. 4 of FP-A44038 Bushing w/1.292" length
4	Pin Bushing	FP-G49659		To 1974; bushing w/1.240" length
<b>QTY</b> 4 4 4 4	CONNECTING RODS & BRGS. Rod Pair Rod Pair Rod Pair Rod Pair Rod Pair	PART NO. FP-A46050 FP-A46052 FP-A46053 FP-A46054	<b>SIZE</b> STD 10 20 30	DESCRIPTION
<b>QTY</b> 4 1	PISTON RINGS Ring Set Single Cylinder Premium Set	PART NO. FP-A151857 FP-G37075		<b>DESCRIPTION</b> 3-Ring Late style; 3-ring; Contains 4 of FP-A151857; 1-1/8, 1-3/32, 1-3/16
	KITS			
<b>QTY</b> 1 1	OVERHAUL KIT Complete Overhaul Kit Complete Overhaul Kit	PART NO. FP-IFK188L FP-IFK188E	SIZE	<b>DESCRIPTION</b> From Ser. No. 2656844; Flange Dia. 4.537" To Ser. No. 2656843; Flange Dia. 4.458"
2				r G207D, 207, 207D Engs. (Diesel). Wheel er Tractor G207D, 207, 207D Engs. (Diesel).
	VALVE Intake	PART NO. FP-A38422	SIZE	DESCRIPTION
4 16	Exhaust Keeper	FP-A38423 FP-A30004		1 groove; Square cut key groove
	VALVE SPRING Spring	PART NO. FP-A30025	SIZE	DESCRIPTION
	ENGINE BLOCK & PARTS			
1	GASKET SETS Complete Overhaul Gasket Set	PART NO. FP-PGE207C	SIZE	<b>DESCRIPTION</b> Oil pan gskt. for 580D-CK not incl.
QTY 1	CAM BEARINGS Cam Set	<i>PART NO.</i> FP-A151075		<b>DESCRIPTION</b> W/Tach drive
	CRANKSHAFT/OIL PUMP			
<b>QTY</b> 1 1	SEALS - FRONT CRANK Redi-Sleeve Oil Seal	PART NO. FP-99210 FP-A39110	SIZE	DESCRIPTION
<b>QTY</b> 1 1	SEALS - REAR CRANK Oil Seal Redi-Sleeve	PART NO. FP-A51339 FP-99400	SIZE	DESCRIPTION
QTY 1 1 1 1	MAIN BEARINGS Main Set Main Set Main Set Main Set	<b>FP-4397M10</b> S <b>FP-4397M20</b> S	<b>SIZE</b> Std-10-20-30 Std-10-20-30 Std-10-20-30 Std-10-20-30	DESCRIPTION
	CYLINDER COMPONENTS			
<b>QTY</b> 4 4 4 4 8	LINERS Liner w/o Sealing Rings Liner w/Sealing Rings Cylinder Kit Complete Cylinder Kit Complete Sealing Ring, Liner	PART NO. FP-A136474 FP-A136474WS FP-A46382 FP-A151991 FP-A51916	STD	Incl. 2 FP-A51916 Sealing Rings From Eng. Ser. No. 2869291 To Eng. Ser. No. 2869290 Use 2 per liner



Forklift G207D, 207, 207D Engs. (Diesel). Loader G207D, 207, 207D Engs. (Diesel). Wheel Tractor G207D, 207, 207D Engs. (Diesel). Crawler Tractor G207D, 207, 207D Engs. (Diesel). (cont.) 3.4L 207 Diesel L4, 4" Bore

	CYLINDER COMPONENTS (cont.	)		
	PISTONS	PART NO.	SIZE	DESCRIPTION
4	Piston Body w/o Pin	FP-A151244		3-ring; From Ser. No. 2869291; 17.1:1 C.R.
4	Piston Body w/o Pin Piston Kit w/Pin & Retainers	FP-A51911		3-ring; To Ser. No. 2869290; 17.1:1 C.R.
4		FP-A151244WP		3-ring; From Ser. No. 2869291; 17.1:1 C.R.
4	Piston Kit w/Pin & Retainers	FP-A51911WP		3-ring; To Ser. No. 2869290; 17.1:1 C.R. 1.250" Dia.
4 8	Pin Piston Pin Retainer	FP-A35770		1.250 Dia.
1	Piston Pin Set	FP-G46702 FP-A35771		Incl. 4 Piston Pins and 8 Piston Pin Retainers
	Pin Bushing Set	FP-A33771 FP-A136712		Bushing w/1.292"length; Incl. 4 of FP-A44038
4	Pin Bushing	FP-A44038		Bushing w/1.292" length
-	<u> </u>	11 A44000		Dusting W/1.202 Torigin
OTV	CONNECTING RODS &	DARTNO	CIZE	DECORIDATION
4	BRGS. Rod Pair	PART NO.	STD	DESCRIPTION
4	Rod Pair	FP-A50975 FP-A50977	31D 10	
4	Rod Pair	FP-A50977 FP-A50978	20	
4	Rod Pair	FP-A50979	30	
				DECORPORA
	PISTON RINGS	PART NO.		DESCRIPTION
4	Ring Set Single Cylinder	FP-A151892		Do not use w/Chrome liners; 1-1/8, 1-3/32, 1-3/16
1 1	Premium Set Standard Set	FP-A151892S		Do not use w/Chrome liners; 1-1/8, 1-3/32, 1-3/16
1 4	Premium Single Cylinder Set	FP-10456X S W-9330KX + Std Only		1-1/8, 1-3/32, 1-3/16 Do not use w/Chrome liners; 1-1/8, 1-3/32, 1-3/16; When
4	Premium Single Cylinder Set	W-933UKA + Std Only		depleted use FP-A151892
				depleted use FF-ATST092
	KITS			
QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Kit	FP-IFK207L	0	From Eng. Ser. No. 2869291; Oil pan gskt. for Wheel Tractor
				Model 580D-CK not incl.
1	Complete Overhaul Kit	FP-IFK207E		To Eng. Ser. No. 2869290; Oil pan gskt. for Wheel Tractor Model
				580D-CK not incl.
				Who at Tractor F000 Fine (Coo) 04
				Wheel Tractor F209 Eng. (Gas) 24
			3.4	L 209 L-HEAD L6, 3.1875" Bore (Continental Eng.)
	CYL HEAD & PARTS			
	CYL. HEAD & PARTS			
	VALVE	PART NO.	SIZE	DESCRIPTION
<b>QTY</b> 6		PART NO. FP-V1748	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia.,
6	VALVE Intake	FP-V1748	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L.
	VALVE		SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520"
6	VALVE Intake Exhaust	FP-V800	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L.
6	VALVE Intake	FP-V1748	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L.  Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L.  Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950"
6 6 6	VALVE Intake Exhaust Exhaust	FP-V1748 FP-V800 FP-V954	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L.
6	VALVE Intake Exhaust	FP-V800	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L.  Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L.  Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950"
6 6 6	VALVE Intake Exhaust Exhaust	FP-V1748 FP-V800 FP-V954	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia.,
6 6	VALVE Intake Exhaust Exhaust Exhaust	FP-V1748 FP-V800 FP-V954 FP-V1684	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L. Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L.
6 6 6 6	VALVE Intake Exhaust Exhaust Exhaust Exhaust Exhaust Keeper	FP-V1748 FP-V800 FP-V954 FP-V1684 FP-V959 FP-VK27	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L.  Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L.  Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L.  Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L.  Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L.  For drilled stem
6 6 6	VALVE Intake Exhaust Exhaust Exhaust Exhaust	FP-V1748 FP-V800 FP-V954 FP-V1684 FP-V959	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L. Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L.
6 6 6 6 6	VALVE Intake Exhaust Exhaust Exhaust Exhaust Exhaust Keeper	FP-V1748 FP-V800 FP-V954 FP-V1684 FP-V959 FP-VK27		Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L.  Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L.  Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L.  Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L.  Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L.  For drilled stem
6 6 6 6 6	VALVE Intake Exhaust Exhaust Exhaust Exhaust Exhaust Exhaust	FP-V1748 FP-V800 FP-V954 FP-V1684 FP-V959 FP-VK27 FP-A30004	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L. Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L. For drilled stem 1 groove; Square cut key groove
6 6 6 6 6 12 QTY	VALVE Intake Exhaust Exhaust Exhaust Exhaust Exhaust VALVE SEAT	FP-V1748 FP-V800 FP-V954 FP-V1684 FP-V959 FP-VK27 FP-A30004 PART NO.	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L. Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L. For drilled stem 1 groove; Square cut key groove
6 6 6 6 6 12 <b>QTY</b> 6	VALVE Intake Exhaust Exhaust Exhaust Exhaust Keeper Keeper VALVE SEAT Exh.	FP-V1748 FP-V800 FP-V954 FP-V1684 FP-V959 FP-VK27 FP-A30004 PART NO. 245-1437-3N Std Only	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L.  Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L.  Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L.  Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L.  Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L.  For drilled stem 1 groove; Square cut key groove  DESCRIPTION  Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth
6 6 6 6 6 12 QTY 6 6	VALVE Intake Exhaust Exhaust Exhaust Exhaust Keeper Keeper VALVE SEAT Exh. Exh.	FP-V1748 FP-V800 FP-V954 FP-V1684 FP-V959 FP-VK27 FP-A30004 PART NO. 245-1437-3N Std Only FP-24513753	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L.  Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L.  Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L.  Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L.  Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L.  For drilled stem 1 groove; Square cut key groove  DESCRIPTION  Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth 1.3795" OD, 1.0625" ID, .1855" Depth
6 6 6 6 12 QTY 6 6 6	VALVE Intake Exhaust Exhaust Exhaust Exhaust Keeper Keeper VALVE SEAT Exh. Exh. Exh.	FP-V1748 FP-V800 FP-V954 FP-V1684 FP-V959 FP-VK27 FP-A30004 PART NO. 245-1437-3N Std Only FP-24513753 245-1437-3 Std Only	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L. Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L. For drilled stem 1 groove; Square cut key groove  DESCRIPTION Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth 1.3795" OD, 1.0625" ID, .1855" Depth 1.4425" OD, 1.1880" ID, .2160" Depth Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth 1.3480" OD, 1.0870" ID, .2005" Depth
6 6 6 6 12 QTY 6 6 6 6	VALVE Intake Exhaust Exhaust Exhaust Exhaust Keeper Keeper VALVE SEAT Exh. Exh. Int.	FP-V1748  FP-V800  FP-V954  FP-V1684  FP-V959  FP-VK27  FP-A30004  PART NO. 245-1437-3N Std Only FP-24513753 245-1437-3 Std Only 245-1625-1N Std Only	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L. Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L. For drilled stem 1 groove; Square cut key groove  DESCRIPTION Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth 1.3795" OD, 1.0625" ID, .1855" Depth 1.4425" OD, 1.1880" ID, .2160" Depth Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth
6 6 6 6 6 12 QTY 6 6 6 6 6 6	VALVE Intake Exhaust Exhaust Exhaust Exhaust Keeper Keeper VALVE SEAT Exh. Exh. Int. Int. Int.	FP-V1748  FP-V800  FP-V954  FP-V1684  FP-V959  FP-VK27  FP-A30004  PART NO. 245-1437-3N Std Only FP-24513753 245-1437-3 Std Only 245-1625-1N Std Only FP-2451348E1N 245-1625-1 Std Only	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L. Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L. For drilled stem 1 groove; Square cut key groove  DESCRIPTION Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth 1.3795" OD, 1.0625" ID, .1855" Depth 1.4425" OD, 1.1880" ID, .2160" Depth Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth 1.3480" OD, 1.0870" ID, .2005" Depth 1.3480" OD, 1.0870" ID, .2005" Depth 1.6300" OD, 1.3750" ID, .2160" Depth
6 6 6 6 6 12 QTY 6 6 6 6 6 6	VALVE Intake Exhaust Exhaust Exhaust Exhaust Keeper Keeper VALVE SEAT Exh. Exh. Int. Int. Int. VALVE GUIDE	FP-V1748  FP-V800  FP-V954  FP-V1684  FP-V959  FP-VK27  FP-A30004  PART NO. 245-1437-3N Std Only FP-24513753 245-1437-3 Std Only 245-1625-1N Std Only FP-2451348E1N 245-1625-1 Std Only PART NO.	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L. Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L. For drilled stem 1 groove; Square cut key groove  DESCRIPTION Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth 1.3795" OD, 1.0625" ID, .1855" Depth 1.4425" OD, 1.1880" ID, .2160" Depth Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth 1.3480" OD, 1.0870" ID, .2005" Depth 1.6300" OD, 1.3750" ID, .2160" Depth DESCRIPTION
6 6 6 6 6 12 QTY 6 6 6 6 6 6 6 7	VALVE Intake Exhaust Exhaust Exhaust Exhaust Keeper Keeper VALVE SEAT Exh. Exh. Int. Int. Int. VALVE GUIDE Guide	FP-V1748  FP-V800  FP-V954  FP-V1684  FP-V959  FP-VK27  FP-A30004  PART NO. 245-1437-3N Std Only FP-24513753 245-1437-3 Std Only 245-1625-1N Std Only FP-2451348E1N 245-1625-1 Std Only PART NO. FP-VG336	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L. Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L. For drilled stem 1 groove; Square cut key groove  DESCRIPTION Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth 1.3795" OD, 1.0625" ID, .1855" Depth 1.4425" OD, 1.1880" ID, .2160" Depth Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth 1.3480" OD, 1.0870" ID, .2005" Depth 1.6300" OD, 1.3750" ID, .2160" Depth 1.6300" OD, 1.3750" ID, .2160" Depth DESCRIPTION .3427" ID, 2.5600" O.A.L.
6 6 6 6 12 QTY 6 6 6 6 6 6 6 7 7 7	VALVE Intake Exhaust Exhaust Exhaust Exhaust Keeper Keeper VALVE SEAT Exh. Exh. Int. Int. Int. VALVE GUIDE Guide VALVE SPRING	FP-V1748  FP-V800  FP-V954  FP-V1684  FP-V959  FP-VK27  FP-A30004  PART NO. 245-1437-3N Std Only FP-24513753 245-1437-3 Std Only 245-1625-1N Std Only FP-2451348E1N 245-1625-1 Std Only PART NO. FP-VG336  PART NO.	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L. Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L. For drilled stem 1 groove; Square cut key groove  DESCRIPTION Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth 1.3795" OD, 1.0625" ID, .1855" Depth 1.4425" OD, 1.1880" ID, .2160" Depth Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth 1.3480" OD, 1.0870" ID, .2005" Depth 1.6300" OD, 1.3750" ID, .2160" Depth DESCRIPTION 3427" ID, 2.5600" O.A.L.  DESCRIPTION
6 6 6 6 6 12 QTY 6 6 6 6 6 6 6 7	VALVE Intake Exhaust Exhaust Exhaust Exhaust Keeper Keeper VALVE SEAT Exh. Exh. Int. Int. Int. VALVE GUIDE Guide VALVE SPRING Spring	FP-V1748  FP-V800  FP-V954  FP-V1684  FP-V959  FP-VK27  FP-A30004  PART NO. 245-1437-3N Std Only FP-24513753 245-1437-3 Std Only 245-1625-1N Std Only FP-2451348E1N 245-1625-1 Std Only PART NO. FP-VG336	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L. Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L. For drilled stem 1 groove; Square cut key groove  DESCRIPTION Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth 1.3795" OD, 1.0625" ID, .1855" Depth 1.4425" OD, 1.1880" ID, .2160" Depth Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth 1.3480" OD, 1.0870" ID, .2005" Depth 1.6300" OD, 1.3750" ID, .2160" Depth 1.6300" OD, 1.3750" ID, .2160" Depth DESCRIPTION .3427" ID, 2.5600" O.A.L.
6 6 6 6 12 QTY 6 6 6 6 6 6 6 7 7 7	VALVE Intake Exhaust Exhaust Exhaust Exhaust Keeper Keeper VALVE SEAT Exh. Exh. Int. Int. Int. VALVE GUIDE Guide VALVE SPRING	FP-V1748  FP-V800  FP-V954  FP-V1684  FP-V959  FP-VK27  FP-A30004  PART NO. 245-1437-3N Std Only FP-24513753 245-1437-3 Std Only 245-1625-1N Std Only FP-2451348E1N 245-1625-1 Std Only PART NO. FP-VG336  PART NO.	SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L. Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L. For drilled stem 1 groove; Square cut key groove  DESCRIPTION Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth 1.3795" OD, 1.0625" ID, .1855" Depth 1.4425" OD, 1.1880" ID, .2160" Depth Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth 1.3480" OD, 1.0870" ID, .2005" Depth 1.6300" OD, 1.3750" ID, .2160" Depth DESCRIPTION 3427" ID, 2.5600" O.A.L.  DESCRIPTION
6 6 6 6 12 QTY 6 6 6 6 6 6 7 QTY 6	VALVE Intake Exhaust Exhaust Exhaust Exhaust Exhaust Keeper Keeper VALVE SEAT Exh. Exh. Int. Int. Int. Int. VALVE GUIDE Guide VALVE SPRING Spring CAMSHAFT GROUP	FP-V1748 FP-V800 FP-V954 FP-V1684 FP-V959 FP-VK27 FP-A30004 PART NO. 245-1437-3N Std Only FP-24513753 245-1437-3 Std Only 245-1625-1N Std Only FP-2451348E1N 245-1625-1 Std Only PART NO. FP-VG336 PART NO. FP-VS310	SIZE SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L. Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L. For drilled stem 1 groove; Square cut key groove  DESCRIPTION Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth 1.3795" OD, 1.0625" ID, .1855" Depth 1.4425" OD, 1.1880" ID, .2160" Depth Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth 1.3480" OD, 1.0870" ID, .2005" Depth 1.6300" OD, 1.3750" ID, .2160" Depth 1.6300" OD, 1.3750" ID, .2160" Depth DESCRIPTION .3427" ID, 2.5600" O.A.L.  DESCRIPTION 1.9690" Free Height
6 6 6 12 QTY 6 6 6 6 QTY 6 CQTY 6	VALVE Intake Exhaust Exhaust Exhaust Exhaust Exhaust Keeper Keeper VALVE SEAT Exh. Exh. Int. Int. Int. Int. Int. VALVE GUIDE Guide VALVE SPRING Spring CAMSHAFT GROUP TIMING	FP-V1748 FP-V800 FP-V954 FP-V1684 FP-V959 FP-VK27 FP-A30004 PART NO. 245-1437-3N Std Only FP-24513753 245-1625-1N Std Only FP-2451348E1N 245-1625-1 Std Only PART NO. FP-VG336 PART NO. FP-VS310  PART NO.	SIZE SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L. Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L. For drilled stem 1 groove; Square cut key groove  DESCRIPTION Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth 1.3795" OD, 1.0625" ID, .1855" Depth 1.4425" OD, 1.1880" ID, .2160" Depth Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth 1.3480" OD, 1.0870" ID, .2005" Depth 1.6300" OD, 1.3750" ID, .2160" Depth 1.6300" OD, 1.3750" ID, .2160" Depth 1.6900" OD, 1.3750" ID, .2160" Depth DESCRIPTION .3427" ID, 2.5600" O.A.L.  DESCRIPTION 1.9690" Free Height
6 6 6 6 12 QTY 6 6 6 6 6 6 6 7 7 6	VALVE Intake Exhaust Exhaust Exhaust Exhaust Exhaust Keeper Keeper VALVE SEAT Exh. Exh. Int. Int. Int. Int. VALVE GUIDE Guide VALVE SPRING Spring CAMSHAFT GROUP TIMING Timing Chain	FP-V1748 FP-V800 FP-V954 FP-V1684 FP-V959 FP-VK27 FP-A30004 PART NO. 245-1437-3N Std Only FP-24513753 245-1437-3 Std Only FP-2451348E1N 245-1625-1 Std Only PART NO. FP-VG336 PART NO. FP-VS310  PART NO. 222-489	SIZE SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L. Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L. For drilled stem 1 groove; Square cut key groove  DESCRIPTION Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth 1.3795" OD, 1.0825" ID, .1855" Depth 1.4425" OD, 1.1880" ID, .2160" Depth Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth 1.3480" OD, 1.0870" ID, .2005" Depth 1.6300" OD, 1.3750" ID, .2160" Depth 1.6300" OD, 1.3750" ID, .2160" Depth 1.6900" Free Height  DESCRIPTION 1.9690" Free Height
6 6 6 12 QTY 6 6 6 6 QTY 6 CQTY 6	VALVE Intake Exhaust Exhaust Exhaust Exhaust Exhaust Keeper Keeper VALVE SEAT Exh. Exh. Exh. Int. Int. Int. Int. VALVE GUIDE Guide VALVE SPRING Spring CAMSHAFT GROUP TIMING Timing Chain Cam Gear	FP-V1748 FP-V800 FP-V954 FP-V1684 FP-V959 FP-VK27 FP-A30004 PART NO. 245-1437-3N Std Only FP-24513753 245-1437-3 Std Only 245-1625-1N Std Only FP-2451348E1N 245-1625-1 Std Only PART NO. FP-VG336 PART NO. FP-VS310  PART NO. 222-489 FP-223233	SIZE SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L. Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L. For drilled stem 1 groove; Square cut key groove  DESCRIPTION Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth 1.3795" OD, 1.0625" ID, .1855" Depth 1.4425" OD, 1.1880" ID, .2160" Depth Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth 1.3480" OD, 1.0870" ID, .2005" Depth 1.6300" OD, 1.3750" ID, .2160" Depth 1.6300" OD, 1.3750" ID, .2160" Depth 1.6990" Free Height  DESCRIPTION 1.9690" Free Height
6 6 6 6 12 QTY 6 6 6 6 6 6 6 6 7 7 6	VALVE Intake Exhaust Exhaust Exhaust Exhaust Exhaust Keeper Keeper VALVE SEAT Exh. Exh. Int. Int. Int. Int. VALVE GUIDE Guide VALVE SPRING Spring CAMSHAFT GROUP TIMING Timing Chain	FP-V1748 FP-V800 FP-V954 FP-V1684 FP-V959 FP-VK27 FP-A30004 PART NO. 245-1437-3N Std Only PP-24513753 245-1437-3 Std Only 245-1625-1N Std Only FP-2451348E1N 245-1625-1 Std Only PART NO. FP-VG336 PART NO. FP-VS310  PART NO. 222-489 FP-223233 FP-2212601	SIZE SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L. Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L. For drilled stem 1 groove; Square cut key groove  DESCRIPTION Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth 1.3795" OD, 1.0625" ID, .1855" Depth 1.4425" OD, 1.1880" ID, .2160" Depth Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth 1.3480" OD, 1.0870" ID, .2005" Depth 1.6300" OD, 1.3750" ID, .2160" Depth 1.6300" OD, 1.3750" ID, .2160" Depth 1.6900" Free Height  DESCRIPTION 1.9690" Free Height
6 6 6 6 6 12 QTY 6 6 6 6 6 6 6 7 QTY 6	VALVE Intake Exhaust Exhaust Exhaust Exhaust Exhaust Keeper Keeper VALVE SEAT Exh. Exh. Int. Int. Int. VALVE GUIDE Guide VALVE SPRING Spring CAMSHAFT GROUP TIMING Timing Chain Cam Gear Cam Gear Cam Gear	FP-V1748 FP-V800 FP-V954 FP-V1684 FP-V959 FP-VK27 FP-A30004 PART NO. 245-1437-3N Std Only FP-24513753 245-1437-3 Std Only 245-1625-1N Std Only FP-2451348E1N 245-1625-1 Std Only PART NO. FP-VG336 PART NO. FP-VS310  PART NO. 222-489 FP-223233	SIZE SIZE	Single groove stem; 1.5160" Head Dia., .3410" Stem Dia., 5.1570" O.A.L. Drilled stem; 1.2030" Head Dia., .3381" Stem Dia., 5.1520" O.A.L. Drilled stem; 1.3280" Head Dia., .3386" Stem Dia., 5.1950" O.A.L. Single groove stem; 1.2030" Head Dia., .3392" Stem Dia., 5.1890" O.A.L. Use w/Rotocaps; 1.3230" Head Dia., .3382" Stem Dia., 5.1100" O.A.L. For drilled stem 1 groove; Square cut key groove  DESCRIPTION Premium Material; 1.4425" OD, 1.1880" ID, .2160" Depth 1.3795" OD, 1.0625" ID, .1855" Depth 1.4425" OD, 1.1880" ID, .2160" Depth Premium Material; 1.6300" OD, 1.3750" ID, .2160" Depth 1.3480" OD, 1.0870" ID, .2005" Depth 1.6300" OD, 1.3750" ID, .2160" Depth 1.6300" OD, 1.3750" ID, .2160" Depth 1.6990" Free Height  DESCRIPTION 1.9690" Free Height

(continued on next page)



24	. Wheel	Tractor F209	Eng.	(Gas)
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(cont.) 3.41.209 I -HEAD I.6. 3.1875" Bore (Continental Eng.)

(00)	(cont.) 3.4L 209 L-HEAD L6, 3.1875" Bore (Continental Eng.)				
	ENGINE BLOCK & PARTS				
QTY 1	CAM BEARINGS Cam Set	PART NO. FP-1088M	SIZE	DESCRIPTION	
	CRANKSHAFT/OIL PUMP				
QTY 1 1 1	CRANKSHAFT Crank Gear Crank Gear Crank Gear	PART NO. FP-223234A FP-2212603A 221-2603A +	SIZE	DESCRIPTION Early model; 18 Teeth 24 Teeth 24 Teeth; When depleted use FP-2212603A	
QTY 1 1 1	MAIN BEARINGS Main Set Thrust Washer Set Thrust Washer Set	PART NO. FP-4247M FP-9811BFA FP-9811BF	Std Only	DESCRIPTION F209, F6209 Dynatork, & 24B 4th Ser. Position 1; Use w/straight shell main brg. set Position 1; Use w/Flanged main brg.	
<b>QTY</b> 1	OIL PUMP Oil Pump Oil Pump	PART NO. FP-2244132 FP-2244137	SIZE	DESCRIPTION F209 and F6209 Engs.; Cast Iron drive gear; Use w/Cast Iron cams; 7 1/8" from flange to end of shaft; Incl. screen F209 and F6209 Engs.; Steel drive gear w/groove at pin; Use w/Steel cams; 7-1/8" from flange to end of shaft; Incl. pin	
	CYLINDER COMPONENTS				
<b>QTY</b> 6	PISTONS Pin Bushing	PART NO. 8649XAS	SIZE	DESCRIPTION Forging No. F400D-502; Full round, thin wall .0055" O/S OD bushing	
6	Pin Bushing	8649XA		Forging No. F400D-502; Full round, thin wall bushing w/.9150"	
6 6	Pin Bushing Pin Bushing	8649V 8649V20		Forging No. F400D-502; Split type, thin wall bushing w/.9135" OD Forging No. F400D-502; Split type, thin wall bushing w/.9135" OD & .020" extra bore stock	
6	Pin Bushing	FP-9324X		Full round, heavy wall bushing w/1.0625" OD; Frg. Nos. D600D-500, F400D-500 & F600D-500. Except F209 4th series, F6209 Dynatork & 24B 4th series Engs.	
<b>QTY</b> 3	CONNECTING RODS & BRGS. Rod Pair	PART NO. FP-1995CPA		DESCRIPTION Position 1-3-5; F209 4th series, F6209 Dynatork & 24B 4th series Engs.	
3	Rod Pair	<b>FP-9320CPA</b> Std-2	<u>}</u> -	Position 1-3-5; F209, PF209, F6209 & 24B 1st, 2nd, 3rd series Engs.	
3	Rod Pair	FP-1995CP	STD	Position 2-4-6; F209 4th series, F6209 Dynatork & 24B 4th series Engs.	
3	Rod Pair	<b>FP-9320CP</b> Std-10	0-20-30-40	Position 2-4-6; F209, PF209, F6209 & 24B 1st, 2nd, 3rd series Engs.	

Combine **H-225 Eng. (Gas)** 3.7L 225 OHV L6, 3.4063" Bore (Chrysler Eng.)

	6.72 220 6117 26, 6.1000 Boto (6111) 6101 Eng.)				
	CYL. HEAD & PARTS				
6 24 24 24 24 24	VALVE Intake Keeper Keeper Keeper Keeper Keeper	PART NO. V-1434 Std Only VK-66 VK-66R VK-174 VK-174R	SIZE	DESCRIPTION 2 groove; 1.6200" Head Dia., .3725" Stem Dia., 4.7740" O.A.L. 2 groove 2 groove; Hardened 4 groove 4 groove; Hardened	
<b>QTY</b> 12 12	VALVE SPRING Spring Spring Insert	PART NO. VS-510 259-103C	SIZE	DESCRIPTION Exh. & Int.; 2.0000" Free Height .015"; ID 1.030"; Carton of 100	
<b>QTY</b> 12	PUSH RODS Push Rod	PART NO. RP-3036	SIZE	<b>DESCRIPTION</b> 9.9540" O.A.L.	
6 6 6	VALVE SEAL Valve Stem Seal Valve Stem Seal Valve Stem Seal Bulk	PART NO. MV-1918 MV-1771C MV-1771	SIZE	DESCRIPTION Exh.; Umbrella type; Viton® Int.; Engs. No. H2254071330; Umbrella type; Polyacrylate Int.; Engs. No. H2254071330; Umbrella type; Carton of 100; Polyacrylate	
	CAMSHAFT GROUP				
<b>QTY</b> 1	TIMING Timing Chain Crank Sprocket	PART NO. 222-495 223-291	SIZE	DESCRIPTION Silent type; 50 Links Use w/silent type chain; 19 Teeth	
QTY 1	CAMSHAFT/LIFTER Camshaft	PART NO. CS-380	SIZE	DESCRIPTION	



Combine H-225 Eng. (Gas) 25 3.7L 225 OHV L6, 3.4063" Bore (Chrysler Eng.) **CAMSHAFT GROUP (cont.)** QTY CAMSHAFT/LIFTER (cont.) PART NO. SIZE **DESCRIPTION** 12 Lifter AT-2084 Std Only Dumbbell shaped mech. Lifter, Bulk AT-2084B Std Only Dumbbell shaped mech.; Carton of 117 12 Prelube 55-400 4 oz. bottle; 1.5 oz. packet No. 55-403 also avail. 1 **ENGINE BLOCK & PARTS QTY GASKET SETS** PART NO. SIZE **DESCRIPTION** Kit Gasket Set 260-1004 Premium valve stem seals incl. QTY CAM BEARINGS PART NO. SIZE **DESCRIPTION** Cam Set 1454M Std Only Cam Set 1473M Std Only CRANKSHAFT/OIL PUMP MAIN BEARINGS PART NO. SIZE DESCRIPTION QTY Main Set **5070M** Std-10-20-30-40 Main Set 4092M Std-10-20-30 1960-76; w/Forged crankshaft; w/ 1.255" O.A.L. No. 3 brg. QTY OIL PUMP PART NO. **DESCRIPTION** w/.826" rotor thickness; 5 bolt pump; Will replace early 6 bolt Oil Pump 224-4165C pump CYLINDER COMPONENTS QTY PISTONS PART NO. DESCRIPTION 6 Cast Piston 244NP Std-20-30-40-60 Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., Flat Head - 8.2:1 C.R. Cast Piston - Individual W244NP Std-20-30-40-Cast; 2-5/64", 1-3/16" Ring Groove, 1.740" CD, .9011" Pin Dia., 6 Flat Head - 8.2:1 C.R. 6 2134Y Pin Bushing **CONNECTING RODS &** BRGS. QTY PART NO. SIZE DESCRIPTION Rod Set 6-3695RA Std-10-20-A-Series aluminum bearings 30-40 Rod Set 6-2375CP Std-10-20-6-2375CA 60 avail. as unplated & resizeable 30-40 6 Rod Pair 2375CP Std-10-20-30-Rod Pair 3695RA Std-1-10-20-6 A-Series aluminum bearings 30-40 QTY **PISTON RINGS** PART NO. SIZE DESCRIPTION Premium Set E-196K Std-20-30-40-2-5/64, 1-3/16 E-196X Std-20-30-40-1 Standard Set 2-5/64, 1-3/16 6 Premium Single Cylinder Set WE-196K Std-20-30-2-5/64, 1-3/16 40-60 WE-196X Std-20-30-6 Standard Single Cylinder Set 2-5/64, 1-3/16

Loader. Power Unit. Wheel Tractor "B" Series, 4B3.9 (4-390) (Naturally Aspirated). Windrower. Trencher. Crawler Tractor. Wheel Skidder. Backhoe. 3.9L 239 (3921cc) OHV Diesel L4, 102mm Bore (Cummins Eng.)

	CYL. HEAD & PARTS			
<b>QTY</b> 4 1 1	GASKETS Valve Cover Gasket Head Gasket Head Set	PART NO. FP-3930906 FP-3283569 FP-3804896	SIZE	DESCRIPTION
<b>QTY</b> 10 4	HEAD BOLTS Head Bolt Head Bolt	PART NO. FP-3920780 FP-3920779	SIZE	DESCRIPTION M12 x 1.75 x 122MM Length M12 x 1.75 x 71.5MM Length
QTY 4	VALVE Intake	PART NO. FP-3920867	SIZE	DESCRIPTION Bare Valve; Chrome plated stem; 1.7720" Head Dia., .3138" Stem Dia., 5.0840" O.A.L.
4	Exhaust	FP-3920868		Bare Valve; Chrome plated stem; 1.6540" Head Dia., .3138" Stem Dia., 5.0810" O.A.L.
4 4 8	Exhaust Valve Kit Intake Valve Kit Keeper	FP-3802356 FP-3802355 FP-3900250		Incl. valve & locks Incl. valve & locks



26 Loader. Power Unit. Wheel Tractor "B" Series, 4B3.9 (4-390) (Naturally Aspirated).
(cont.) Windrower. Trencher. Crawler Tractor. Wheel Skidder. Backhoe.
3.9L 239 (3921cc) OHV Diesel L4, 102mm Bore (Cummins Eng.)

	3.9L 239 (392 ICC) OHV Diesei L4	, 102mm Bore (Cun	imins i	ing.)
	CYL. HEAD & PARTS (cont.)			
<b>QTY</b> 4 4	VALVE SEAT Exh. Int.	PART NO. FP-3904105 FP-3906854	SIZE	DESCRIPTION
<b>QTY</b> 4 4 4	VALVE GUIDE Guide Guide Guide	PART NO. FP-3904409 FP-3904408 FP-3906206	SIZE	DESCRIPTION  Exh.; Thick wall; .3160" ID, 2.0520" O.A.L.  Int.; Thick wall; .3160" ID, 2.3970" O.A.L.  Int. & Exh.; Thin wall; .3162" ID, 2.5000" O.A.L.
8 8 8 8 8	VALVE SPRING Spring Spring Spring Spring Spring Retainer	PART NO. FP-4936080 FP-3900276 FP-3926700 FP-3932453 FP-3900299	SIZE	DESCRIPTION  1.8800" Free Height 30 PSI; 2.2350" Free Height 36 PSI; 2.3850" Free Height 36 PSI; 2.5500" Free Height
<b>QTY</b> 8	PUSH RODS Push Rod	PART NO. FP-3284377	SIZE	DESCRIPTION 10.9100" O.A.L.
QTY 1	VALVE MISC. O-Ring	PART NO. FP-3910824	SIZE	<b>DESCRIPTION</b> Valve Cover Screw; .364" I.D. x .070" Thick
<b>QTY</b> 8 8 8	VALVE SEAL Valve Stem Seal Valve Stem Seal Valve Stem Seal	PART NO. FP-3957912 FP-3921640 FP-3901097 +	SIZE	DESCRIPTION Int. & Exh.; For Engs. built after April 2003; Top Hat style; Viton® Int. & Exh.; For Engs. built before April 2003 Int. & Exh.; When depleted use FP-3921640
<b>QTY</b> 4 4	ROCKER PARTS Rocker Lever Exhaust Rocker Lever Intake	PART NO. FP-3910810 FP-3910811	SIZE	DESCRIPTION Exh. Int.
	CAMSHAFT GROUP			
<b>QTY</b> 1 8	CAMSHAFT/LIFTER Camshaft Lifter	PART NO. FP-3929039 FP-3931623	SIZE	DESCRIPTION
	FUEL SYSTEM & PARTS			
QTY 4 4 4 4 4	FUEL INJECTION Fuel Injector Seal Ring Fuel Injector Sleeve Fuel Injector Seal Copper Washer Fuel Line Connector	PART NO. FP-3909356 FP-3919358 FP-3930324 FP-3906659 FP-3903380	SIZE	DESCRIPTION  For 9mm head  For 7mm head; 1.50MM Thick Banjo connector; 6mm; Banjo connector
1 1 1	FUEL FILTERS & PUMP Fuel Transfer Pump Fuel Transfer Pump Fuel Transfer Pump	PART NO. FP-4983584 * FP-3970880 + FP-4944713	SIZE	
	COOLING SYSTEM WATER PUMP	PART NO.	SIZE	DESCRIPTION
1 QTY 1 1	Water Pump - Heavy Duty THERMOSTAT Thermostat Thermostat Kit	FP-3286277 PART NO. FP-3917324 FP-3802273	SIZE	<b>DESCRIPTION</b> 180 Deg. F 180 Deg. F; Includes Thermostat, Template and O-ring
	ENGINE BLOCK & PARTS			
QTY 1	GASKETS Oil Pan Gasket	PART NO. FP-3911535	SIZE	DESCRIPTION
QTY 1	GASKET SETS Gasket Conversion Set	PART NO. FP-3802375	SIZE	DESCRIPTION
1	CAM BEARINGS Cam Brg. Cam Brg.	PART NO. FP-3940059 FP-3901306	STD STD	<b>DESCRIPTION</b> From 1997 and up (Storm Blocks) To 1996
QTY 1	OIL COOLERS & FILTERS Oil Cooler	PART NO. FP-3957543	SIZE	DESCRIPTION
	CRANKSHAFT/OIL PUMP			
<b>QTY</b> 1 1	CRANKSHAFT Crankshaft Crank Gear	PART NO. FP-3929036 FP-3929027	SIZE	DESCRIPTION STD; With Gear



Loader. Power Unit. Wheel Tractor "B" Series, 4B3.9 (4-390) (Naturally Aspirated). 26
Windrower. Trencher. Crawler Tractor. Wheel Skidder. Backhoe. (cont.)
3.9L 239 (3921cc) OHV Diesel L4, 102mm Bore (Cummins Eng.)

		3.9L 2	39 (392	1cc) OHV Diesel L4, 102mm Bore (Cummins Eng.)
	CRANKSHAFT/OIL PUMP (cont.)			
QTY 1 1	SEALS - FRONT CRANK Oil Seal Gear Housing Gasket Redi-Sleeve	PART NO. FP-3937111 FP-3938156 FP-3906080	SIZE	DESCRIPTION Front Front
	SEALS - REAR CRANK Redi-Sleeve Rear Cover Gasket	PART NO. FP-3906081 FP-3928493	SIZE	DESCRIPTION Rear
1	Rect. or Square Seal	FP-3912473		Flywheel Housing; Rectangular
1 1 1 1	MAIN BEARINGS Main Set	PART NO. FP-3802010 FP-3802011 FP-3802012 FP-3802013 FP-3802014	SIZE STD .25MM .50MM .75MM 1.00MM	DESCRIPTION
QTY 1	OIL PUMP Oil Pump	PART NO. FP-4939585	SIZE	DESCRIPTION 4BT3.9
	CYLINDER COMPONENTS	11-4303303		10.0
	LINERS	PART NO.	SIZE	DESCRIPTION
4	Liner w/o Sealing Rings	FP-3904166		To return block to Standard
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston W/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Pin Bushing Pin Bushing CONNECTING RODS & BRGS. Con. Rod Bolt Rod Pair Rod Pair Rod Pair Rod Pair Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower	PART NO. FP-3906223 FP-3906209 FP-3906208 FP-3906223WP FP-3906209WP FP-3906208WP FP-3802060 FP-3802064 FP-PK6223 FP-PK6223 FP-PK6209 FP-PK6208 FP-4891178 FP-3901085  PART NO. FP-3907060 FP-3967060 FP-3967061 FP-3967062 FP-3967063 FP-3967064 FP-3967064 FP-3939859 FP-3901171 FP-3901172	STD .25MM .50MM .75MM 1.00MM STD .25MM .50MM	For machine split rods For machine split rods For machine split rods
8	Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower	FP-3901173 FP-3901174	1.00MM	
<b>QTY</b> 4 4 4	PISTON RINGS Ring Set Single Cylinder Ring Set Single Cylinder Ring Set Single Cylinder	PART NO. FP-3802040 FP-3802042 FP-3802044	STD .50MM	<b>DESCRIPTION</b> 1-2.40MM, 1-2.36MM, 1-4.00MM (1 cyl. set) 1-2.40MM, 1-2.36MM, 1-4.00MM (1 cyl. set) 1-2.40MM, 1-2.36MM, 1-4.00MM (1 cyl. set)
	KITS			
QTY 1 1 1 1 1 1 1	OVERHAUL KIT Piston and Ring Kit Piston and Ring Kit w/Bearing Piston Kit w/Ring Set Piston Kit w/Rings & Bearings In-Frame Overhaul Kit Complete Overhaul Kit	PART NO. PK1-2742 PK2-2742A FP-PK12742 FP-PK22742A FP-4B39PREML FP-4B39PREMOHL	SIZE	DESCRIPTION When depleted use FP-PK12742 When depleted use FP-PK22742A  4B3.9; Late; Premium; With Upper Gasket Set & Pan Gasket 4B3.9; Late; Premium; With Front & Rear Seals and Upper & Lower Gasket Sets
1	Complete Overhaul Kit	FP-4B39PREMOH		4B3.9; Premium; With Front & Rear Seals and Upper & Lower Gasket Sets



27 Loader. Wheel Tractor "B" Series, 4BT3.9 (4T-390) (Turbo). Trencher. Crawler Tractor. Excavator.

3.9L 239 (3921cc) OHV Turbo-Diesel L4, 102mm Bore (Cummins Eng.)

	3.9L 239 (392 100) OTTV TUIDO-DI	16361 14, 102111111 1	ole (Ouli	illilis Elig.)
	CYL. HEAD & PARTS			
QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
2	Grommet	FP-3900267		Push Rod Cover
4	Valve Cover Gasket	FP-3930906		
1	Head Gasket	FP-3283336		.25 MM O/S Head Gasket
1 1	Head Gasket	FP-3283569		Standard
	Head Set	FP-3804896		Standard Head Gasket
	Head Set			
		FP-3802362		Standard; .25 MM O/S Head Gasket
2	Grommet	FP-3900267		Cam Follower Cover
	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION
10	Head Bolt	FP-3920780		M12 x 1.75 x 122MM Length
4	Head Bolt	FP-3920779		M12 x 1.75 x 71.5MM Length
OTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
4	Bolt	FP-3920781	0.22	Rocker Lever Shaft Support; M12 x 1.75 x 180MM Rocker Arm
-	Boil	11 0020701		Bolt
071/	\/A1\/=	242740	0.75	
	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-3920867		Bare Valve; Chrome plated stem; 1.7720" Head Dia., .3138"
				Stem Dia., 5.0840" O.A.L.
4	Exhaust	FP-3920868		Bare Valve; Chrome plated stem; 1.6540" Head Dia., .3138"
				Stem Dia., 5.0810" O.A.L.
4	Exhaust Valve Kit	FP-3802356		Incl. valve & locks
4	Intake Valve Kit	FP-3802355		Incl. valve & locks
8	Keeper	FP-3900250		
OTV	VALVE SEAT	PART NO.	QI7E	DESCRIPTION
4	Exh.	FP-3904105	SIZE	DESCRIPTION
	Int.	FP-3906854		
4		FF-3900034		
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
4	Guide	FP-3904409		Exh.; Thick wall; .3160" ID, 2.0520" O.A.L.
4	Guide	FP-3904408		Int.; Thick wall; .3160" ID, 2.3970" O.A.L.
4	Guide	FP-3906206		Int. & Exh.; Thin wall; .3162" ID, 2.5000" O.A.L.
OTV	VALVE SPRING	DARTNO	CIZE	DESCRIPTION
		PART NO.	SIZE	
8	Spring	FP-4936080		1.8800" Free Height
8	Spring	FP-3900276		30 PSI; 2.2350" Free Height
8	Spring	FP-3926700		36 PSI; 2.3850" Free Height
8	Spring	FP-3932453		36 PSI; 2.5500" Free Height
8	Retainer	FP-3900299		
QTY	PUSH RODS	PART NO.	SIZE	DESCRIPTION
8	Push Rod	FP-3284377		Int. & Exh.; 10.9100" O.A.L.
1	Push Rod Cover Gasket	FP-3283767		Ind & Ext., 10.0100 '03' i.E.
	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
1	O-Ring	FP-3910824		Valve Cover Screw; .364" I.D. x .070" Thick
OTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-3957912	0	Int. & Exh.; For Engs. built after April 2003; Top Hat style; Viton®
8	Valve Stem Seal	FP-3921640		Int. & Exh.; For Engs. built before April 2003
8	Valve Stem Seal	FP-3901097 +		Int. & Exh.; When depleted use FP-3921640
	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
8	Adjusting Screw Nut	FP-203131		3/8" - 24 UNF
4	Bolt	FP-3920781		Rocker Lever Shaft Support; M12 x 1.75 x 180MM Rocker Arm
				Bolt
4	Support, Rocker Lever	FP-3922488		
4	Rocker Lever Exhaust	FP-3910810		
4	Rocker Lever Intake	FP-3910811		
8	Washer	FP-3900245		Rocker Lever; M19
8	Snap Ring	FP-3900242		Rocker Lever
	1 0			•
	INT & EXH MANIFOLDS			
QTV	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
4	Exhaust Manifold Gasket	FP-3905443	JIZL	2200: 110H
1	Int. Manif. Cover Plate Gskt.	FP-3903443 FP-3914028		
QTY	AIR INTAKE	PART NO.	SIZE	DESCRIPTION
1	Air Intake Gasket	FP-3969988		
	CAMCHAET CROUD			
	CAMSHAFT GROUP			
QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft	FP-3929039		
8	Lifter	FP-3931623		



Loader. Wheel Tractor "B" Series, 4BT3.9 (4T-390) (Turbo). Trencher. Crawler Tractor. 27

Excavator. (cont.)

3.9L 239 (3921cc) OHV Turbo-Diesel L4, 102mm Bore (Cummins Eng.)

	FUEL SYSTEM & PARTS	,		
	FUEL INJECTION	PART NO.	SIZE	
2	Grommet	FP-3900267		Fuel Drain Tube
4	Fuel Injector Seal Ring	FP-3909356		
4	Fuel Injector Sleeve	FP-3919358		For 9mm head
4	Fuel Injector Seal	FP-3930324		
4	Copper Washer	FP-3906659		For 7mm head; 1.50MM Thick
4	Fuel Line Connector	FP-3903380		For 6mm head; Banjo connector
QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Fuel Transfer Pump	FP-4983584 *		Diaphragm style
1	Fuel Transfer Pump	FP-3970880 +		Diaphragm style; When depleted use FP-4983584
1	Fuel Transfer Pump	FP-4944713		144.7 - 201.2 LPH; 1/4 x 18 NPTF Fuel Inlet
1	Cover Plate Gasket	FP-3931348		Fuel Transfer Pump Mounting
1	Cover Plate Gasket	FP-3939258		Fuel Transfer Pump Mounting
1	Solenoid Repair Kit	FP-3903575		Fuel Transfer Pump
1	Solenoid Repair Kit	FP-3903576		Fuel Transfer Pump; 24V
4	Washer	FP-3900808		Sealing
2	Washer	FP-3918191		Sealing; Fuel Supply Tube; .500" I.D., Banjo Connector
1	Fuel Filter Gasket	FP-3906694		Large
1	Fuel Filter Gasket	FP-3906695		Small
QTY	TURBOCHARGER	PART NO.	SI7F	DESCRIPTION
1	Turbocharger Mounting Gasket	FP-3901356	J	
	COOLING SYSTEM			
	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	FP-3286277		
1	Ball Brg.	FP-3910739		Fan Drive
1	Water Pump Seal Ring	FP-3906698		Water pump mounting; Rectangular Ring
1	O-Ring	FP-3883284		Air Intake Connection; For 3.00" Dia. Turbocharger elbow
1	O-Ring	FP-3923331		Thermostat Housing Cover
1	Shaft & Bearing Assembly	FP-3923517		
1	V Belt	FP-3911587		53.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911557		56 X 1.125"; Ribbed 8
1	V Belt	FP-3911588		56.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911568		57 X 1.125"; Ribbed 8
1	V Belt	FP-3911558		59 X 1.125"; Ribbed 8
1	V Belt	FP-3911563		60.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911572		61.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911559		62 X 1.125"; Ribbed 8
1	V Belt	FP-3034946		62.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911575		63 X 1.125"; Ribbed 8
1	V Belt	FP-3911582		70 X 1.125"; Ribbed 8
	THERMOSTAT	PART NO.	SIZE	
1	Thermostat	FP-3917324		180 Deg. F
1	Thermostat Kit	FP-3802273		180 Deg. F; Includes Thermostat, Template and O-ring
	<b>ENGINE BLOCK &amp; PARTS</b>			
QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-3911535		-
1	Washer	FP-3902425		Sealing; Oil Pan Plug
1	Washer	FP-3920773		Sealing; Oil Pan Plug; 18.40MM I.D. x 1.5MM Thick
1	O-Ring	FP-3913994		<u> </u>
1	Gear Cover Gasket	FP-3914385		
1	Rect. or Square Seal	FP-3903475		Tach Drive Cover
QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-3802375		
1	In-Frame Gasket Set	FP-3802362S		.25 MM O/S Head Gasket
1	In-Frame Gasket Set	FP-3804896S		Standard Head Gasket
	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-3940059		From 1997 and up (Storm Blocks)
1	Cam Brg.	FP-3940039 FP-3901306		Position Front only
				DESCRIPTION
1	OIL COOLERS & FILTERS Oil Cooler	<i>PART NO.</i> FP-3957543	SIZE	DESCRIP HON
	Oil Cooler Oil Press. Reg. Low Pressure	FP-3918428		Oil Press. Regulator Plunger
	Or Press. Reg. Low Pressure	FP-3910420 FP-3909397		Oil Cooler
1	Oil Cooler Core Inner Gasket	FP-3926760		Core
li	Oil Cooler Core Outer Gasket	FP-3929792		33.0
	C. COOLO COLO CALO CALOROL	/continue		



Loader. Wheel Tractor "B" Series, 4BT3.9 (4T-390) (Turbo). Trencher. Crawler Tractor. (cont.) Excavator.
3.9L 239 (3921cc) OHV Turbo-Diesel L4. 102mm Bore (Cummins Eng.)

	3.9L 239 (3921cc) OHV Turbo-Diesel L4, 102mm Bore (Cummins Eng.)					
	ENGINE BLOCK & PARTS (cont.)	)				
QTY	FREEZE PLUGS	PART NO.	SIZE	DESCRIPTION		
1	Expansion Plug	FP-3900687		1.00" Dia.		
2	Expansion Plug	FP-3007635		1.00 Dia.		
	CRANKSHAFT/OIL PUMP					
QTY 1	CRANKSHAFT Crankshaft	PART NO. FP-3929036	SIZE	DESCRIPTION STD; With Gear		
li	Crank Gear	FP-3929027		Front		
QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION		
1	Oil Seal	FP-3937111				
1	Gear Housing Gasket	FP-3938156		Front		
1 1	Redi-Sleeve O-Ring	FP-3906080 FP-3913994		Front		
1	Rect. or Square Seal	FP-3915772		Front		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION		
1	Oil Seal	FP-3909410		Rear; Single Lip; Dry Clutch		
1	Oil Seal Kit Oil Seal Kit	FP-3926126 FP-4089342 +		Single Lip; Dry Clutch; Incl. Wear Sleeve When depleted use FP-3934486		
1	Redi-Sleeve	FP-3906081		Rear		
1	Rear Cover Gasket	FP-3928493				
1	Rect. or Square Seal	FP-3912473		Rear; Rectangular		
QTY 1	MAIN BEARINGS Main Set	PART NO. FP-3802010	<b>SIZE</b> STD	DESCRIPTION		
li	Main Set	FP-3802010 FP-3802011	.25MM			
1	Main Set	FP-3802012	.50MM			
1	Main Set	FP-3802013	.75MM			
1	Main Set	FP-3802014	1.00MM	DECODIDATION		
1	OIL PUMP Oil Pump	<i>PART NO.</i> FP-4939585	SIZE	DESCRIPTION		
1	Pick-Up Tube Gasket	FP-3938157				
1	Pick-Up Tube Gasket	FP-3914383 +		When depleted use FP-3938157		
	CYLINDER COMPONENTS					
QTY 4	CYLINDER COMPONENTS  LINERS  Liner w/o Sealing Rings	PART NO. FP-3904166	SIZE	DESCRIPTION To return block to Standard		
4 QTY	LINERS Liner w/o Sealing Rings PISTONS	FP-3904166 PART NO.	SIZE	To return block to Standard  DESCRIPTION		
4 <b>QTY</b> 4	LINERS Liner w/o Sealing Rings PISTONS Piston Body w/o Pin	FP-3904166 PART NO. FP-3907163	SIZE STD	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.		
4 QTY 4 4	LINERS Liner w/o Sealing Rings PISTONS Piston Body w/o Pin Piston Body w/o Pin	PART NO. FP-3907163 FP-3908815	SIZE STD .50MM	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.  4BT3.9; Early; 17.5:1 C.R.		
4 <b>QTY</b> 4	LINERS Liner w/o Sealing Rings PISTONS Piston Body w/o Pin	FP-3904166 PART NO. FP-3907163	SIZE STD .50MM 1.00MM	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.		
4 QTY 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-3907163WP FP-3908815WP	SIZE STD .50MM 1.00MM STD .50MM	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.		
4 QTY 4 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-3907163WP FP-3908815WP FP-3908816WP	SIZE STD .50MM 1.00MM STD .50MM 1.00MM	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.		
4 QTY 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-3907163WP FP-3908815WP	SIZE STD .50MM 1.00MM STD .50MM 1.00MM STD	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.		
4 QTY 4 4 4 4 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-3907163WP FP-3908815WP FP-3908816WP FP-3802160 FP-3802132 FP-3802134	SIZE STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM 1.00MM	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.		
4 QTY 4 4 4 4 4 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer, Rings	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-3908815WP FP-3908815WP FP-3802160 FP-3802132 FP-3802134 FP-3802712	SIZE STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM 1.00MM STD	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.		
4 QTY 4 4 4 4 4 4 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer, Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-3908816WP FP-3908816WP FP-3802160 FP-3802132 FP-3802134 FP-3802712 FP-K8815	SIZE STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.		
4 QTY 4 4 4 4 4 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer, Rings	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-3908815WP FP-3908815WP FP-3802160 FP-3802132 FP-3802134 FP-3802712	SIZE STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM 1.00MM STD	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.		
4 QTY 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston Body w/o Pin Piston Body w/o Pin	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-3907163WP FP-3908815WP FP-3908816WP FP-3802132 FP-3802132 FP-3802712 FP-PK8815 FP-PK8816 FP-3907156 FP-3907157	SIZE STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.  4BTA3.9; Early; 17.5:1 C.R.		
4 QTY 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-3907163WP FP-3908815WP FP-3908816WP FP-3802132 FP-3802132 FP-3802134 FP-3802712 FP-PK8815 FP-PK8816 FP-3907156 FP-3907157 FP-3907158	SIZE STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM 1.00MM STD	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.  4BT3.9; Early; 16.5:1 C.R.  4BTA3.9; Early; 16.5:1 C.R.  4BTA3.9; Early; 16.5:1 C.R.		
4 QTY 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston Body w/o Pin Piston Body w/o Pin	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-3907163WP FP-3908815WP FP-3908816WP FP-3802132 FP-3802132 FP-3802712 FP-PK8815 FP-PK8816 FP-3907156 FP-3907157	SIZE	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.  4BTA3.9; Early; 17.5:1 C.R.		
4 QTY 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-390815WP FP-3908816WP FP-3802160 FP-3802132 FP-3802134 FP-3802712 FP-K8816 FP-3907156 FP-3907156 FP-3907157 FP-3907158 FP-3907158WP FP-3907158WP	SIZE STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.  4BT3.9; Early; 16.5:1 C.R.  4BTA3.9; Early; 16.5:1 C.R.		
4 QTY 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston w/Retainer & Rings	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-390815WP FP-3908816WP FP-3802160 FP-3802132 FP-3802134 FP-3802712 FP-K8815 FP-PK8816 FP-3907156 FP-3907157 FP-3907158 FP-3907158WP FP-3907158WP FP-3802100	SIZE STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.  4BT3.9; Early; 16.5:1 C.R.  4BTA3.9; Early; 16.5:1 C.R.		
4 QTY 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston W/Retainer & Rings	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-3907163WP FP-3908816WP FP-3802160 FP-3802134 FP-3802134 FP-3802712 FP-PK8815 FP-PK8816 FP-3907156 FP-3907157 FP-3907158 FP-3907158WP FP-3907158WP FP-3802100 FP-3802102	SIZE STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM 1.00MM STD .50MM	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.  4BT3.9; Early; 16.5:1 C.R.  4BTA3.9; Early; 16.5:1 C.R.		
4 QTY 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston w/Retainer & Rings	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-390815WP FP-3908816WP FP-3802160 FP-3802132 FP-3802134 FP-3802712 FP-K8815 FP-PK8816 FP-3907156 FP-3907157 FP-3907158 FP-3907158WP FP-3907158WP FP-3802100	SIZE	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.  4BT3.9; Early; 16.5:1 C.R.  4BTA3.9; Early; 16.5:1 C.R.		
4 QTY 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston W/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer, Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-3907163WP FP-3908816WP FP-3802160 FP-3802132 FP-3802134 FP-3802134 FP-3802712 FP-PK8815 FP-PK8816 FP-3907156 FP-3907156WP FP-3907158WP FP-3907158WP FP-3907158WP FP-3802100 FP-3802100 FP-3802101 FP-3802101 FP-3802101 FP-3802101 FP-3802101 FP-3802101 FP-3802101 FP-3802101 FP-3802101	SIZE	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.  4BT3.9; Early; 16.5:1 C.R.  4BTA3.9; Early; 16.5:1 C.R.		
4 QTY 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Rit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-3907163WP FP-3908815WP FP-3802160 FP-3802132 FP-3802134 FP-3802712 FP-K8815 FP-K8816 FP-3907156 FP-3907157 FP-3907157 FP-3907157WP FP-3907158WP FP-3802100 FP-3802102 FP-3802104 FP-3802104 FP-3802711 FP-PK7157 FP-PK7158	SIZE	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.  4BT3.9; Early; 16.5:1 C.R.  4BTA3.9; Early; 16.5:1 C.R.		
4 QTY 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston W/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston body w/o Pin Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston W/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings Piston body w/o Pin	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-3907163WP FP-3908815WP FP-3908816WP FP-3802160 FP-3802132 FP-3802134 FP-3802712 FP-PK8816 FP-3907156 FP-3907157 FP-3907157 FP-3907158WP FP-3907157WP FP-3907158WP FP-3907158WP FP-3802100 FP-3802102 FP-3802104 FP-3802104 FP-3802711 FP-PK7157 FP-PK7158 FP-3926631	SIZE	To return block to Standard  DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.  4BT3.9; Early; 16.5:1 C.R.  4BTA3.9; Early; 16.5:1 C.R.		
4 QTY 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Rit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-3907163WP FP-3908815WP FP-3802160 FP-3802132 FP-3802134 FP-3802712 FP-K8815 FP-K8816 FP-3907156 FP-3907157 FP-3907157 FP-3907157WP FP-3907158WP FP-3802100 FP-3802102 FP-3802104 FP-3802104 FP-3802711 FP-PK7157 FP-PK7158	SIZE	DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.  4BT3.9; Early; 16.5:1 C.R.  4BTA3.9; Early; 16.5:1 C.R.		
4 QTY 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston W/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston W/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston body w/o Pin	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-390815WP FP-3908816WP FP-3802160 FP-3802132 FP-3802134 FP-3802712 FP-K8815 FP-PK8816 FP-3907156 FP-3907156 FP-3907157 FP-3907158WP FP-3907158WP FP-3907158WP FP-3907158WP FP-3907158WP FP-3802100 FP-3802102 FP-3802104 FP-3802711 FP-PK7157 FP-PK7158 FP-3906631 FP-3926633 FP-3926633 FP-3926634	SIZE	DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.  4BT3.9; Early; 16.5:1 C.R.  4BTA3.9; Early; 16.5:1 C.R.		
4 QTY 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	LINERS Liner w/o Sealing Rings  PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston W/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston Wit w/Pin & Retainers Piston Wit w/Pin & Retainers Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Retainer & Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings Piston Body w/o Pin	FP-3904166  PART NO. FP-3907163 FP-3908815 FP-3908816 FP-390815WP FP-3908816WP FP-3802160 FP-3802132 FP-3802134 FP-3802712 FP-K8815 FP-PK8816 FP-3907156 FP-3907156 FP-3907157 FP-3907158WP FP-3907158WP FP-3907158WP FP-3907158WP FP-3907158FP-3907158FP-3907158WP FP-3907158FP-3907158FP-3907158FP-3907158WP FP-3907158WP FP-3907158WP FP-3907158WP FP-3802100 FP-3802101 FP-787158 FP-3926631 FP-3926632 FP-3926633	SIZE	DESCRIPTION  4BT3.9; Early; 17.5:1 C.R.  4BT3.9; Early; 16.5:1 C.R.  4BTA3.9; Early; 16.5:1 C.R.		



Loader. Wheel Tractor "B" Series, 4BT3.9 (4T-390) (Turbo). Trencher. Crawler Tractor. Excavator. (cont.)

3.9L 239 (3921cc) OHV Turbo-Diesel L4, 102mm Bore (Cummins Eng.)

	CYLINDER COMPONENTS (cont.	`	•	
	,	,	CIZE	DECODIDATION
	PISTONS (cont.)	PART NO.		DESCRIPTION  APT 2 0: C Crado: 10 MM Ton Bing Land
4 4	Piston Kit w/Pin & Retainers	FP-3926633WP		4BT3.9; C Grade; 10 MM Top Ring Land
4	Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers	FP-3926634WP FP-3926635WP		4BT3.9; 10 MM Top Ring Land 4BT3.9; 10 MM Top Ring Land
4	Piston w/Retainer & Rings	FP-3802561		4BT3.9; A Grade; 10 MM Top Ring Land
4	Piston w/Retainer & Rings	FP-3802562		4BT3.9; B Grade; 10 MM Top Ring Land
4	Piston w/Retainer & Rings	FP-3802563		4BT3.9; C Grade; 10 MM Top Ring Land
4	Piston w/Retainer & Rings	FP-3802564		4BT3.9; 10 MM Top Ring Land
4	Piston w/Retainer & Rings	FP-3802565		4BT3.9; 10 MM Top Ring Land
4	Piston w/Pin, Retainer, Rings	FP-PK6631		4BT3.9; A Grade; Naturally Aspirated
4	Piston w/Pin, Retainer, Rings	FP-PK6632		4BT3.9; B Grade; 10 MM Top Ring Land
4	Piston w/Pin, Retainer, Rings	FP-PK6633	STD	4BT3.9; C Grade; 10 MM Top Ring Land
4	Piston w/Pin, Retainer, Rings	FP-PK6634		4BT3.9; 10 MM Top Ring Land
4	Piston w/Pin, Retainer, Rings	FP-PK6635		4BT3.9; 10 MM Top Ring Land
4	Piston Body w/o Pin	FP-3919041		4BTA3.9
4	Piston Body w/o Pin	FP-3919044		4BTA3.9
4	Piston Body w/o Pin	FP-3919045		4BTA3.9
4	Piston Kit w/Pin & Retainers	FP-3919041WP		4BTA3.9
4	Piston Kit w/Pin & Retainers	FP-3919044WP		4BTA3.9
4	Piston Kit w/Pin & Retainers	FP-3919045WP		4BTA3.9 4BTA3.9
4 4	Piston w/Retainer & Rings Piston w/Retainer & Rings	FP-3802248 FP-3802249		4BTA3.9 4BTA3.9
4	Piston w/Retainer & Rings Piston w/Retainer & Rings	FP-3802250		4BTA3.9
4	Piston w/Pin, Retainer, Rings	FP-PK9041		4BTA3.9
4	Piston w/Pin, Retainer, Rings	FP-PK9044		4BTA3.9
4	Piston w/Pin, Retainer, Rings	FP-PK9045		4BTA3.9
4	Piston Body w/o Pin	FP-3928673		4BTA3.9
4	Piston Body w/o Pin	FP-3928674		4BTA3.9
4	Piston Body w/o Pin	FP-3928675	1.00MM	4BTA3.9
4	Piston Kit w/Pin & Retainers	FP-3928673WP	STD	4BTA3.9
4	Piston Kit w/Pin & Retainers	FP-3928674WP	.50MM	4BTA3.9
4	Piston Kit w/Pin & Retainers	FP-3928675WP		4BTA3.9
4	Piston w/Retainer & Rings	FP-3802747		4BTA3.9
4	Piston w/Retainer & Rings	FP-3802764		4BTA3.9
4	Piston w/Retainer & Rings	FP-3802765		4BTA3.9
4	Piston w/Pin, Retainer, Rings	FP-PK8673		4BTA3.9
4	Piston w/Pin, Retainer, Rings	FP-PK8674		4BTA3.9
4	Piston w/Pin, Retainer, Rings	FP-PK8675		4BTA3.9
4	Piston Body w/o Pin Piston Body w/o Pin	FP-3930187 FP-3930188		4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only 4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston Body w/o Pin	FP-3930189		4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston Kit w/Pin & Retainers	FP-3930187WP		4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston Kit w/Pin & Retainers	FP-3930188WP		4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston Kit w/Pin & Retainers	FP-3930189WP		4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston w/Retainer & Rings	FP-3802757		4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston w/Retainer & Rings	FP-3802758		4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston w/Retainer & Rings	FP-3802759	1.00MM	4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston w/Pin, Retainer, Rings	FP-PK0187		4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston w/Pin, Retainer, Rings	FP-PK0188		4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Piston w/Pin, Retainer, Rings	FP-PK0189	1.00MM	4BT3.9; Late; 17.3:1 C.R.; CPL Numbers 1963, 2264, 2623 only
4	Pin	FP-3934048		Early; For pistons 3907156, 3907157, 3907158, 3907163,
1 ,	Dia.	ED 0004047		3908815, 3908817
4	Pin	FP-3934047		Late; For pistons 3919041, 3919044, 3919045, 3926631,
				3926632, 3926633, 3926634, 3926635, 3928673, 3928674, 3928675, 3930187, 3930188, 3930189
4	Piston Pin Retainer	FP-3920691		0920010, 0900101, 0900100, 0900109
4	Piston Cooling Nozzle	FP-3920091 FP-3901020		Pre- 1991
4	Piston Cooling Nozzle	FP-3937214		1991 to 1996
4	Pin Bushing	FP-4891178		For fracture split rods
4	Pin Bushing	FP-3901085		For machine split rods
-	CONNECTING RODS &			e er e e e e
OTV	BRGS.	PART NO.	SIZE	DESCRIPTION
8	Con. Rod Bolt	FP-3900919	JILL	For machine split rods only; MJ11 - 1.25 X 59mm
4	Rod Pair	FP-3967060	STD	For fracture split rods
4	Rod Pair	FP-3967061	.25MM	
4	Rod Pair	FP-3967062	.50MM	·
4	Rod Pair	FP-3967063	.75MM	'
4	Rod Pair	FP-3967064	1.00MM	For fracture split rods
8	Rod Bearing Half Upper/Lower	FP-3939859	STD	For machine split rods
	- ''		ind on nov	·



27 Loader. Wheel Tractor "B" Series, 4BT3.9 (4T-390) (Turbo). Trencher. Crawler Tractor.

3.9L 239 (3921cc) OHV Turbo-Diesel L4, 102mm Bore (Cummins Eng.)

	0.3E 203 (032 100) OTTV Turbo-Dieser E4, Tozimin Bote (Odiminins Eng.)					
	CYLINDER COMPONENTS (cont.)					
QTY	CONNECTING RODS & BRGS. (cont.)	PART NO.	SIZE	DESCRIPTION		
8	Rod Bearing Half Upper/Lower	FP-3901171	.25MM	For machine split rods		
8	Rod Bearing Half Upper/Lower	FP-3901172	.50MM			
8	Rod Bearing Half Upper/Lower	FP-3901173	.75MM	For machine split rods		
8	Rod Bearing Half Upper/Lower	FP-3901174	1.00MM	For machine split rods		
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION		
4	Ring Set Single Cylinder	FP-3802750	STD	CPL Numbers 1963, 2264, 2623		
4	Ring Set Single Cylinder	FP-3802863	.50MM	CPL Numbers 1963, 2264, 2623		
4	Ring Set Single Cylinder	FP-3802864	1.00MM	CPL Numbers 1963, 2264, 2623		
4	Ring Set Single Cylinder	FP-3802230	STD	4BT3.9; 1-3.00MM, 1-2.36MM, 1-4.00MM (1 cyl. set)		
4	Ring Set Single Cylinder	FP-3802232	.50MM	4BT3.9; 1-3.00MM, 1-2.36MM, 1-4.00MM (1 cyl. set)		
4	Ring Set Single Cylinder	FP-3802234	1.00MM	4BT3.9; 1-3.00MM, 1-2.36MM, 1-4.00MM (1 cyl. set)		
	KITS					
QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION		
1	Piston and Ring Kit	PK1-2743		4BT Engs.		
1	Piston and Ring Kit	PK1-2744		4BTA Engs.		
1	Piston and Ring Kit w/Bearing	PK2-2743A		4BT Engs.		
1	Piston and Ring Kit w/Bearing	PK2-2744A		4BTA Engs.		
1	In-Frame Overhaul Kit	FP-4B39PREML		4BT3.9; Late; Premium; With Upper Gasket Set & Pan Gasket		
1	In-Frame Overhaul Kit	FP-4B39PREM		4BT3.9; Premium; With Upper Gasket Set & Pan Gasket		
1	Complete Overhaul Kit	FP-4B39PREMOHI	-	4BT3.9; Late; Premium; With Front & Rear Seals and Upper & Lower Gasket Sets		
1	Complete Overhaul Kit	FP-4B39PREMOH		4BT3.9; Premium; With Front & Rear Seals and Upper & Lower Gasket Sets		

# 28 Combine A251, A251B, A251G, A251S, 251, 251B, 251BG Engs. (Gas). Wheel Tractor A251, A251B, A251G, A251S, 251, 251B, 251BG Engs. (Gas).

4.1L 251 L4, 4" Bore

	CYL. HEAD & PARTS					
QTY	VALVE	PART NO.	SIZE	DESCRIPTION		
16	Keeper	FP-A27872		251B Eng.		
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION		
8	Guide	FP-VG544		Models 730 & 740; .4050" ID, 3.5800" O.A.L.		
4	Guide	FP-A26294		Int.; Model 400, 700 & 800; .4050" ID, 4.3800" O.A.L.		
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION		
8	Spring	FP-A66444		Model 770		
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION		
4	Rotocap	FP-A66336		Exh.; 251B Eng.		
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION		
8	Valve Stem Seal	ST-2001		Positive type; Installation requires valve guide machining; Rubber/PTFE		
8	Valve Stem Seal	FP-A58628		251B Eng.; O-Ring style		
8	Valve Stem Seal Bulk	ST-2001BC		Positive type; Installation requires valve guide machining; Carton		
				of 100; Rubber/PTFE		
	ENGINE BLOCK & PARTS					
QTY	CAM BEARINGS	PART NO.		DESCRIPTION		
1	Cam Set	FP-A23577	STD	W/2.250" dia. brgs.		
	CRANKSHAFT/OIL PUMP					
QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION		
1	Redi-Sleeve	FP-99260				
1	Oil Seal	FP-A157044				
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION		
1	Oil Seal	415138				
1	Redi-Sleeve	FP-99475				
QTY	MAIN BEARINGS	PART NO.		DESCRIPTION		
1	Main Set	FP-7039M		Optional main set w/o thrust washer		
1	Thrust Washer Set	FP-A62572S		Position 3; .156" Thick		
1	Thrust Washer Set	FP-A62573S	STD	Position 3; .186" Thick		
	(continued on pext page)					



Combine A251, A251B, A251G, A251S, 251, 251B, 251BG Engs. (Gas). Wheel Tractor 28
A251, A251B, A251G, A251S, 251, 251B, 251BG Engs. (Gas). (cont.)

		A251, A251B, <i>I</i>	A251G	, <b>A251S</b> , <b>251</b> B, <b>251BG Engs. (Gas).</b> (cont.) 4.1L 251 L4, 4" Bore
	CYLINDER COMPONENTS			
QTY 4	PISTONS Pin Bushing	<i>PART NO.</i> FP-A27846	SIZE	<b>DESCRIPTION</b> W/1.3596" pin dia.; 1.500" Pin Dia.
	CONNECTING RODS & BRGS. Rod Pair	PART NO. FP-A43173 FP-A43174 FP-A43175 FP-A43176 FP-A43177	STD 2 10 20	DESCRIPTION 2.7490" Crank Pin Dia.
<b>QTY</b> 1 4	PISTON RINGS Premium Set Premium Single Cylinder Set	PART NO. FP-5194KX W-5194KX Std Only	Std Only	<b>DESCRIPTION</b> 3-3/32, 1-1/4 3-3/32, 1-1/4
			W	Theel Tractor A251D, 251D Engs. (Diesel) 29 4.1L 251 Diesel L4, 4" Bore
	CYL. HEAD & PARTS			
QTY 4	VALVE GUIDE Guide	<i>PART NO.</i> FP-A26294	SIZE	DESCRIPTION Int.; 400 Powerdyne; .4050" ID, 4.3800" O.A.L.
QTY 8	VALVE SPRING Spring	PART NO. FP-VS581	SIZE	<b>DESCRIPTION</b> Models 400 Powerdyne & 600 Series only; 2.6400" Free Height
	ENGINE BLOCK & PARTS			
<b>QTY</b> 1	CAM BEARINGS Cam Set	PART NO. FP-A23577		<b>DESCRIPTION</b> W/2.250" dia. brgs.
	CRANKSHAFT/OIL PUMP			
<b>QTY</b> 1 1	SEALS - FRONT CRANK Redi-Sleeve Oil Seal	PART NO. FP-99260 FP-A157044	SIZE	DESCRIPTION
<b>QTY</b> 1 1	SEALS - REAR CRANK Oil Seal Redi-Sleeve	PART NO. 415138 FP-99475	SIZE	DESCRIPTION
QTY 1 1 1	MAIN BEARINGS Main Set Thrust Washer Set Thrust Washer Set	PART NO. FP-7039M FP-A62572S FP-A62573S	Std-10-20 STD	DESCRIPTION Optional main set w/o thrust washer Position 3; .156" Thick Position 3; .186" Thick
	CYLINDER COMPONENTS			
1	CONNECTING RODS & BRGS. Rod Pair	PART NO. FP-A43173 FP-A43174 FP-A43175 FP-A43176 FP-A43177	STD 2 10 20	DESCRIPTION 2.7490" Crank Pin Dia.
		Combin	e CE E	Eng. (Gas). Wheel Tractor CE Eng. (Gas). 4.3L 260 L4, 3.875" Bore
	CYL. HEAD & PARTS			
<b>QTY</b> 8	VALVE Exhaust	PART NO. FP-V773	SIZE	DESCRIPTION For Int. & Exh.; 1.7500" Head Dia., .4335" Stem Dia., 5.7030" O.A.L.
8	VALVE SEAT Exh. & Int.	PART NO. FP-24518125	SIZE	<b>DESCRIPTION</b> 1.8175" OD, 1.5000" ID, .2480" Depth
<b>QTY</b> 8	VALVE SEAL Valve Stem Seal	PART NO. ST-2007	SIZE	DESCRIPTION Positive type; Rubber
	CYLINDER COMPONENTS			
1 1 1 4	PISTON RINGS Premium Set Premium Set Premium Set Premium Set Premium Single Cylinder Set	PART NO. FP-5138KX FP-5194KX FP-919KX W-5194KX Std Only	Std Only Std Only Std Only	<b>DESCRIPTION</b> OVERBORE To 4.000"; 2-3/32, 1-1/8, 1-1/4  OVERBORE To 4.000"; 3-3/32, 1-1/4  3-1/8, 1-1/4  OVERBORE To 4.000"; 3-3/32, 1-1/4



Ga	se Co., J.I.			▼ /DIESEL
3	1 Wheel Tractor HD260 Eng. 4.3L 260 OHV Diesel L4, 3.875"	. <b>(Diesel)</b> Bore (Continental	Eng.)	
	CYL. HEAD & PARTS			
<b>QTY</b> 16	VALVE Keeper	<i>PART NO.</i> VK-140	SIZE	DESCRIPTION
QTY 8	VALVE GUIDE Guide	PART NO. FP-VG483	SIZE	<b>DESCRIPTION</b> .4365" ID, 2.8750" O.A.L.
<b>QTY</b> 8	VALVE SPRING Spring	PART NO. FP-A30025	SIZE	DESCRIPTION
	CYLINDER COMPONENTS			
<b>QTY</b> 4	PISTONS Pin Bushing	PART NO. FP-1669Y20	SIZE	DESCRIPTION
3		267, 267B Eng		67B Engs. (Diesel). Wheel Tractor A267, sel). Wheel Loader A267, A267B, A267BD,
	CYL. HEAD & PARTS			
<b>QTY</b> 4 4 16	VALVE Intake Exhaust Keeper	PART NO. FP-A11801 FP-A11802 FP-A27872	SIZE	DESCRIPTION A267D Engs.; Model 730 A267D Engs.; Model 730 A267BD, 4-267BD Engs.; Model 730
4 8	VALVE GUIDE Guide Guide	PART NO. FP-A11803 FP-A11803	SIZE	DESCRIPTION  Exh.; A267D Engs.; Model 730; .4050" ID, 3.2200" O.A.L.  Exh. & Int.; A267BD, 4-267BD Engs.; Model 770; .4050" ID, 3.2200" O.A.L.
4 0TV	Guide VALVE SPRING	FP-A26294 PART NO.	SIZE	Int.; A267D Engs.; Model 730; .4050" ID, 4.3800" O.A.L. <b>DESCRIPTION</b>
8	Spring	FP-A66444	SIZL	A267BD Engs.
<b>2TY</b> 8	VALVE SEAL Valve Stem Seal	PART NO. FP-A58628	SIZE	<b>DESCRIPTION</b> A267BD Engs.; O-Ring style
	ENGINE BLOCK & PARTS			
<b>QTY</b> 1 1	GASKET SETS Complete Overhaul Gasket Set Complete Overhaul Gasket Set	PART NO. FP-PGE267LC FP-PGE267EC	SIZE	DESCRIPTION A267BD, 4-267BD Engs. only; Model 770 Eng. oil pan gskt. for Case-O-Matic & Model. 730 after Ser. No. 8353501 not incl.
QTY 1	CAM BEARINGS Cam Set	PART NO. FP-A23577		<b>DESCRIPTION</b> W/2.250" dia. brgs.
	CRANKSHAFT/OIL PUMP			
<b>QTY</b> 1 1	SEALS - FRONT CRANK Redi-Sleeve Oil Seal	PART NO. FP-99260 FP-A157044	SIZE	DESCRIPTION
<b>QTY</b> 1 1	SEALS - REAR CRANK Oil Seal Redi-Sleeve	PART NO. 415138 FP-99475	SIZE	DESCRIPTION
1 1 1	MAIN BEARINGS Main Set Thrust Washer Set Thrust Washer Set	PART NO. FP-7039M FP-A62572S FP-A62573S	Std-10-20 STD	DESCRIPTION Optional main set w/o thrust washer Position 3; .156" Thick Position 3; .186" Thick
ΩΤΥ	CYLINDER COMPONENTS  LINERS	PART NO.	SIZE	DESCRIPTION
4 4 4 4 4	Liner w/Sealing Rings Liner w/Sealing Rings Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete	FP-A23658WS FP-A182186WS FP-A418211 FP-A404791 FP-A1481351	STD STD STD STD	Wheel Tractor Model 770 only, A267BD, 4-267BD Engs. Contains cast-iron piston w/1.359" dia. pin Contains Alum. piston w/1.500" dia. pin Wheel Tractor Model 770 only, A267BD Engs.
QTY 4	PISTONS Piston Body w/o Pin	PART NO. FP-2489N		<b>DESCRIPTION</b> OVERBORE To 4.250"; 700B Eng. only; 3-3/32, 1-1/4 Ring Groove; Flat Head
4	Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers	FP-A11101WP FP-A24488WP	STD STD	· ·
	1 Stoff fat w/f in a flotainois		nued on nev	Groove; Flat Head. Alum. w/Ni-Resist Insert

(continued on next page)



Combine A267, A267B, A267BD, A267D, 267, 267B Engs. (Diesel). Wheel Tractor A267, 32 A267B, A267BD, A267D, 267, 267B Engs. (Diesel). Wheel Loader A267, A267B, A267BD, (cont.) A267D, 267, 267B Engs. (Diesel).

4.4L 267 Diesel L4, 4.125
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				4.4L 207 Diesei L4, 4.125 Duie
	CYLINDER COMPONENTS (cont.	)		
OT)	,	,	0175	DECODIBITION
4	PISTONS (cont.) Piston Kit w/Pin & Retainers	PART NO. FP-A65127WP		DESCRIPTION  Wheel Tractor Model 770 only A267BD, 4-267BD Engs.; Cast; 2-3/32, 1-1/4 Ring Groove; Dish Head .890" deep x 2.310" dia. w/2 valve reliefs
4	Pin Bushing	FP-A27846		W/1.3586" pin dia.; 1.500" Pin Dia.
	CONNECTING RODS &			
	BRGS.	PART NO.	_	DESCRIPTION
4	Rod Pair	FP-A43173		2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
4	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.
OTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
4	Ring Set Single Cylinder	FP-A41967	_	A267BD Engs.; 2-3/32, 1-1/4
4	Ring Set Single Cylinder	FP-A40364		A267D Engs.; 3-3/32, 1-1/4
4	Ring Set Single Cylinder	FP-A40367		OVERBORE TO 4.250"; 3-3/32, 1-1/4
2	Premium Set	FP-A41967S		A267BD Engs.; 2-3/32, 1-1/4; 2 Cyl Set
1	Premium Set	FP-A40364S	STD	A267D Engs.; 3-3/32, 1-1/4
1	Premium Set	FP-A40364S	STD	OVERBORE TO 4.250"; 3-3/32, 1-1/4
4			310	
4	Premium Single Cylinder Set Premium Single Cylinder Set	W-10138KX Std Only W-5538KX Std Only		A267BD Engs.; 2-3/32, 1-1/4 (2 cyl. set) A267D Engs.; 3-3/32, 1-1/4
4	,	TI-JJJUINA SIGUIN		72010 Lilyo., 0-0/02, 1-1/4
	KITS			
QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFK267L		A267BD, 4-267BD, Late Engs. only
1	In-Frame Overhaul Kit	FP-IFK267E		W/1.3586" pin dia. & thrust washer set; Oil pan gskt. for Case-O
				Matic & Model 730 From Ser. No. 8353501 not incl.
1	In-Frame Overhaul Kit	FP-IFK267E		W/1.500" pin dia. & thrust washer set; Oil pan gskt. for Case-O-Matic & Model 730 From Ser. No. 8353501 not incl.
				Combine H-273, HA-273 Engs. (Gas) 4.5L 273 OHV V8, 3.625" Bore (Chrysler Eng.)
	ENGINE BLOCK & PARTS			
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	1484M Std Only		
1	Cam Set	1451M Std Only		.760" length ctr. brg.
	CRANKSHAFT/OIL PUMP			
QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Harmonic Balancer Sleeve	88218		
QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	99218		
1	Oil Seal	3103		
	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
	Oil Seal Kit	5414		
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	<b>4923MA</b> Std-1-10-20-30-40-50-60		A-Series aluminum bearings
	CYLINDER COMPONENTS			
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
8	Pin Bushing	2134Y		
8	Pin Bushing	2134Y20		w/.020" extra bore stock
	CONNECTING RODS &			
QTY	BRGS.	PART NO.	SIZE	DESCRIPTION
1	Rod Set	8-2130CP10X2 10X2		Use in .002" O/S Rod Bore
1	Rod Set	8-2130CP Std-1-10-		8-2130CA 60 avail. as unplated & resizeable
		20-30-40-50		•
1	Rod Set	8-2130CA60 60		Unplated & resizeable
8	Rod Pair	2130CP Std-1-2-10-20-		
		30-40		



Va	3e 00i, 0iii			* **DIESEL®
34	4 Wheel Tractor HD277 Eng. 4.5L 277 OHV Diesel L4, 4" Bore		ng.)	
	CYL. HEAD & PARTS			
<b>QTY</b> 16	VALVE Keeper	PART NO. VK-140	SIZE	DESCRIPTION
<b>QTY</b> 8	VALVE GUIDE Guide	PART NO. FP-VG483	SIZE	<b>DESCRIPTION</b> .4365" ID, 2.8750" O.A.L.
<b>QTY</b> 8	VALVE SPRING Spring	PART NO. FP-A30025	SIZE	DESCRIPTION
	CYLINDER COMPONENTS			
QTY 4	PISTONS Pin Bushing	<i>PART NO.</i> FP-1669Y20	SIZE	DESCRIPTION
3	5 Combine JXC Eng. (Gas) 4.6L 282 L-HEAD L6, 3.75" Bore (	Hercules Eng.	)	
	CYL. HEAD & PARTS			
<b>QTY</b> 6	VALVE Intake	PART NO. FP-V318	SIZE	<b>DESCRIPTION</b> 1.6930" Head Dia., .3725" Stem Dia., 5.1150" O.A.L.
<b>QTY</b> 12	VALVE GUIDE Guide	PART NO. FP-VG414	SIZE	<b>DESCRIPTION</b> .3745" ID, 2.3600" O.A.L.
	ENGINE BLOCK & PARTS			
<b>QTY</b> 1	CAM BEARINGS Cam Set	PART NO. FP-1090M	SIZE Std Only	DESCRIPTION
	CRANKSHAFT/OIL PUMP			
1 1 1 4 4 4 1 1 1 1 1 1 1 0 <b>QTY</b> 6	MAIN BEARINGS Plain Main Brg.	PART NO. FP-2241CP10 FP-2241CP20 FP-2241CP30 FP-2243CP10 FP-2243CP30 FP-2242CP10 FP-2242CP20 FP-2242CP30 FP-2244CP30 FP-2244CP30 PP-2244CP30 PP-2244CP30 PART NO. FP-1424X  PART NO. FP-1420CP PART NO. FP-645KX W-645KX Std O	10 20 30 10 20 30 10 20 30 10 20 30 <b>SIZE</b> Std-10-20-40 SIZE Std Only	
3(	6 Combine A284G, A284GF, A284GF, A284S, 284, 284E 4.7L 284 L4, 4.25" Bore	A284S, 284	, 284B, 28	84S Engs. (Gas). Wheel Tractor A284G,
OTV	CYL. HEAD & PARTS VALVE	DART NO	CITE	DESCRIPTION
16	Keeper	PART NO. FP-A27872		284 Engs.
4	Exh.	PART NO. FP-24518125		<b>DESCRIPTION</b> 830 & 840 Models; 1.8175" OD, 1.5000" ID, .2480" Depth
8	VALVE GUIDE Guide	PART NO. FP-VG544	SIZE	284S Engs.; .4050" ID, 3.5800" O.A.L.
<b>QTY</b> 8	VALVE SPRING Spring	PART NO. FP-A21076	SIZE	<b>DESCRIPTION</b> 284 Engs.
	ENGINE BLOCK & PARTS			
<b>QTY</b> 1	CAM BEARINGS Cam Set	PART NO. FP-A23577	_	<b>DESCRIPTION</b> W/2.250" dia. brgs.



	Combine A284G, A284GF	, A284S, 28 <sup>4</sup>		284S Engs. (Gas). Wheel Tractor A284G, 36 iF, A284S, 284, 284B, 284S Engs. (Gas). (cont.) 4.7L 284 L4, 4.25" Bore
	CRANKSHAFT/OIL PUMP			
<b>QTY</b> 1 1	SEALS - FRONT CRANK Redi-Sleeve Oil Seal	PART NO. FP-99260 FP-A157044	SIZE	DESCRIPTION
<b>QTY</b> 1 1	SEALS - REAR CRANK Oil Seal Redi-Sleeve	PART NO. 415138 FP-99475	SIZE	DESCRIPTION
<b>QTY</b> 1 1	MAIN BEARINGS Main Set Thrust Washer Set	PART NO. FP-7039M FP-A62572S	Std-10-20	DESCRIPTION Optional main set w/o thrust washer Position 3; .156" Thick
	CYLINDER COMPONENTS			
QTY 4	PISTONS Pin Bushing	PART NO. FP-A27846	SIZE	DESCRIPTION W/1.3596" pin dia.; 1.500" Pin Dia.
QTY 4 4 4 4 4	CONNECTING RODS & BRGS. Rod Pair	PART NO. FP-A43173 FP-A43174 FP-A43175 FP-A43176 FP-A43177	STD 2 10 20	DESCRIPTION 2.7490" Crank Pin Dia.
<b>QTY</b> 4 1	PISTON RINGS Ring Set Single Cylinder Premium Set	PART NO. FP-A40367 FP-A40367S	STD	<b>DESCRIPTION</b> 3-3/32, 1-1/4 3-3/32, 1-1/4
				Combine GO298 Eng. (Gas) 4.9L 298 OHV L6, 3.75" Bore (Hercules Eng.)
	CYL. HEAD & PARTS			
6	VALVE Intake	PART NO. FP-V318		<b>DESCRIPTION</b> 1.6930" Head Dia., .3725" Stem Dia., 5.1150" O.A.L.
<b>QTY</b> 12	VALVE GUIDE Guide	<i>PART NO.</i> FP-VG414	SIZE	DESCRIPTION .3745" ID, 2.3600" O.A.L.
	ENGINE BLOCK & PARTS			
QTY 1	CAM BEARINGS Cam Set	PART NO. FP-1226M	SIZE Std Only	DESCRIPTION
	CYLINDER COMPONENTS			
<b>QTY</b> 6 6	CONNECTING RODS & BRGS. Rod Pair Rod Pair	PART NO. FP-1420CP 3160CP Std-10	_	<b>DESCRIPTION</b> w/1.9870-1.9880" std. shaft size w/2.3730-2.3740" std. shaft size
<b>QTY</b> 6	PISTON RINGS Premium Set	PART NO. FP-5648KX	_	<b>DESCRIPTION</b> GO-298 Engs.; 1-3/32, 1-1/8, 2-3/16 (1 cyl. set)
		Engs. (Gas)	). Wheel	Tractor A301, 301B, 301BG Engs. (Gas). 5.0L 301 L4, 4.375" Bore
OTY	CYL. HEAD & PARTS	DADTNO	0.75	DESCRIPTION
16	VALVE Keeper	PART NO. FP-A27872	SIZE	
8	VALVE SPRING Spring	PART NO. FP-A66444	SIZE	
4	VALVE MISC. Rotocap	PART NO. FP-A66336		DESCRIPTION Exh.
QTY 8	VALVE SEAL Valve Stem Seal	PART NO. FP-A58628	SIZE	DESCRIPTION O-Ring style
	ENGINE BLOCK & PARTS			
QTY 1	CAM BEARINGS Cam Set	PART NO. FP-A23577	<b>SIZE</b> STD	<b>DESCRIPTION</b> W/2.250" dia. brgs.
	CRANKSHAFT/OIL PUMP			
QTY 1	SEALS - FRONT CRANK Redi-Sleeve	<i>PART NO.</i> FP-99260	SIZE	DESCRIPTION



**38** *Combine* **A301**, **301B**, **301BG Engs. (Gas)**. *Wheel Tractor* **A301**, **301B**, **301BG Engs. (Gas)**. **(cont.)** 5.0L 301 L4, 4.375" Bore

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CRANKSHAFT/OIL PUMP (cont.)			
SEALS - FRONT CRANK (cont.) Oil Seal	PART NO. FP-A157044	SIZE	DESCRIPTION
SEALS - REAR CRANK Oil Seal Redi-Sleeve	PART NO. FP-A62050 FP-99475	SIZE	DESCRIPTION
MAIN BEARINGS Main Set Thrust Washer Set	PART NO. FP-7039M FP-A62572S	SIZE Std-10-20 STD	DESCRIPTION Optional main set w/o thrust washer Position 3; .156" Thick
CYLINDER COMPONENTS			
LINERS Liner w/Sealing Rings	PART NO. FP-A148203WS	SIZE STD	DESCRIPTION Incl. (2) sealing rings; Flange dia. 5.173"
PISTONS Pin Bushing	PART NO. FP-A27846	SIZE	DESCRIPTION W/1.3596" pin dia.; 1.500" Pin Dia.
CONNECTING RODS & BRGS. Rod Pair Rod Pair Rod Pair Rod Pair	PART NO. FP-A43173 FP-A43174 FP-A43175 FP-A43176	2 10 20	DESCRIPTION 2.7490" Crank Pin Dia.
	SEALS - FRONT CRANK (cont.) Oil Seal  SEALS - REAR CRANK Oil Seal Redi-Sleeve  MAIN BEARINGS Main Set Thrust Washer Set  CYLINDER COMPONENTS  LINERS Liner w/Sealing Rings PISTONS Pin Bushing  CONNECTING RODS & BRGS. Rod Pair Rod Pair Rod Pair Rod Pair	SEALS - FRONT CRANK (cont.)	SEALS - FRONT CRANK (cont.)

39 Combine A301BD, A301D, 301, 301B Engs. (Diesel). Wheel Tractor A301BD, A301D, 301, 301B Engs. (Diesel). Crawler Tractor A301BD, A301D, 301, 301B Engs. (Diesel). Wheel Loader A301BD, A301D, 301, 301B Engs. (Diesel). 5.0L 301 Diesel L4, 4.375" Bore

	CYL. HEAD & PARTS			
<b>QTY</b> 16	VALVE Keeper	PART NO. FP-A27872	SIZE	DESCRIPTION
<b>QTY</b> 4 4	VALVE GUIDE Guide Guide	PART NO. FP-A11803 FP-A26294	SIZE	<b>DESCRIPTION</b> Exh.; A301D & A301DF Engs.; .4050" ID, 3.2200" O.A.L. Int.; A301D & A301DF Engs.; .4050" ID, 4.3800" O.A.L.
<b>QTY</b> 8	VALVE SPRING Spring	PART NO. FP-A21076	SIZE	DESCRIPTION A301D & A301DF Engs.
QTY 4	VALVE MISC. Rotocap	PART NO. FP-A66336	SIZE	<b>DESCRIPTION</b> Exh.; A301D, A301BD Engs.
<b>QTY</b> 8	VALVE SEAL Valve Stem Seal	PART NO. FP-A58628	SIZE	DESCRIPTION A301D, A301BD Engs.; O-Ring style
	ENGINE BLOCK & PARTS			
<b>QTY</b> 1 1	GASKET SETS Complete Overhaul Gasket Set Complete Overhaul Gasket Set	PART NO. FP-PGE301LC FP-PGE301EC	SIZE	DESCRIPTION Complete, A301BD Engs. Complete, A301D & A301DF Engs.
<b>QTY</b> 1	CAM BEARINGS Cam Set	PART NO. FP-A23577	SIZE STD	<b>DESCRIPTION</b> W/2.250" dia. brgs.
	CRANKSHAFT/OIL PUMP			
<b>QTY</b> 1 1	SEALS - FRONT CRANK Redi-Sleeve Oil Seal	PART NO. FP-99260 FP-A157044	SIZE	DESCRIPTION
<b>QTY</b> 1 1	SEALS - REAR CRANK Oil Seal Redi-Sleeve	PART NO. FP-A62050 FP-99475	SIZE	DESCRIPTION
QTY 1 1 1 1 2 2	MAIN BEARINGS Main Set Main Set Main Set Thrust Washer Set Thrust Washer Set Thrust Washer Pc. Thrust Washer Pc.	PART NO. FP-7039M FP-7039M10 FP-7039M20 FP-A62572S FP-A62573S FP-A62572 FP-A62573	Std-10-20 Std-10-20 Std-10-20 STD STD STD	DESCRIPTION Optional main set w/o thrust washer Position 3; .156" Thick Position 3; .156" Thick Position 3; .156" Thick



Combine A301BD, A301D, 301, 301B Engs. (Diesel). Wheel Tractor A301BD, A301D, 301, 39 301B Engs. (Diesel). Crawler Tractor A301BD, A301D, 301, 301B Engs. (Diesel). Wheel (cont.) Loader A301BD, A301D, 301, 301B Engs. (Diesel). 5.0L 301 Diesel L4, 4.375" Bore

CYLINDER COMPONENTS  LINERS Liner w/o Sealing Rings Liner w/o Sealing Rings	PART NO. FP-A148203	SIZE	DESCRIPTION
Liner w/o Sealing Rings Liner w/o Sealing Rings	-	SIZE	DESCRIPTION
Liner w/o Sealing Rings			A301BD Engs.; Flange dia. 5.173"
Linei w/o Sealing hings	FP-A23660		A301D & A301DF Engs.; Flange Dia. 5.127"
Liner w/Cooling Dings	FP-A23660 FP-A148203WS	CTD	A301BD Engs.; Incl. (2) sealing rings; Flange dia. 5.173"
Liner w/Sealing Rings Liner w/Sealing Rings		SID	A301D & A301DF Engs.; Flange Dia. 5.127"
Cylinder Kit Complete	FP-A23660WS FP-A460221	SID	A301BD Engs.; Liner Flange Dia. 5.127
Cylinder Kit Complete  Cylinder Kit Complete	FP-A429951		A301D & A301DF Engs.; Liner Flange Dia. 5.173
	FP-2385246	310	Use 2 per liner
PISTONS	PART NO.	SIZE	DESCRIPTION
Piston Body w/o Pin	FP-A64766		A301BD Engs.; Cast; 2-3/32, 1-1/4 Ring Groove; Dish Head .908" deep x 2.450" dia. w/2 valve reliefs
Piston Body w/o Pin	FP-A57139		A301D & A301DF Engs.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head
Piston Kit w/Pin & Retainers	FP-A64766WP	STD	A301BD Engs.; Cast; 2-3/32, 1-1/4 Ring Groove; Dish Head .908" deep x 2.450" dia. w/2 valve reliefs
Piston Kit w/Pin & Retainers	FP-A57139WP	STD	A301D & A301DF Engs.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head
Pin	FP-A64767		1.501" Dia.
Piston Pin Retainer	FP-A21016		Use w/FP-A57139 Piston
Piston Pin Retainer	FP-10021150		Use w/FP-A64766 Piston
Pin Bushing	FP-A27846		1.500" Pin Dia.
CONNECTING RODS &			
BRGS.	PART NO.	SIZE	DESCRIPTION
Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.
Rod Pair	FP-A4317340	40	2.7490" Crank Pin Dia.
PISTON RINGS	PART NO.	SIZE	DESCRIPTION
Ring Set Single Cylinder	FP-A43028		A301BD Engs.; 2-3/32, 1-1/4; 1 cyl. set
	FP-A42996		A301D & A301DF Engs.; 3-3/32, 1-1/4
	FP-A43028S		A301BD Engs.; 2-3/32, 1-1/4 (2 cyl. set)
Premium Set	FP-A42996S	STD	A301D & A301DF Engs.; 3-3/32, 1-1/4
Premium Single Cylinder Set	<b>W-10162KX</b> + Std Only		A301BD Engs.; 2-3/32, 1-1/4; 1 cyl. set; When depleted use FP-A43028
Premium Single Cylinder Set	W-5701KX + Std Only		A301D & A301DF Engs.; 3-3/32, 1-1/4; When depleted use FP-A42996
KITS		_	
OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
Complete Overhaul Kit	FP-IFK301L		A-301BD Engs.; w/thrust washer set
Complete Overhaul Kit	FP-IFK301E		A-301D & A-301DF Engs.; w/thrust washer set
	Piston Body w/o Pin  Piston Body w/o Pin  Piston Kit w/Pin & Retainers  Piston Kit w/Pin & Retainers  Piston Pin Retainer  Piston Pin Retainer  Piston Pin Retainer  Pin Bushing  CONNECTING RODS &  BRGS.  Rod Pair  PISTON RINGS  Ring Set Single Cylinder  Ring Set Single Cylinder  Premium Set  Premium Set  Premium Single Cylinder Set  Premium Single Cylinder Set  WITS  VERHAUL KIT  Complete Overhaul Kit	PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston Pin Retainer Piston Pin Retainer Piston Pin Retainer Pin Bushing Pin Bushing PART NO. RODS & RGS. RODS & R	PISTONS Piston Body w/o Pin Piston Body w/o Pin Piston Body w/o Pin Piston Kit w/Pin & Retainers Piston Pin Retainer Piston Pin Retainer Piston Pin Retainer Pin Bushing Pin Bushing PRAT NO. PIN PA27846  CONNECTING RODS & PART NO. SIZE ROD Pair Rod Pair Rod Pair Rod Pair Rod Pair PP-A43175 PROD Pair Rod Pair PP-A43176 PP-A43177 ROD PIN PROD PR-A43177 ROD PIN PROD PIN PART NO.  PROD PIN PART NO. PIN PART

5.2L 318 OHV V8, 3.9063" Bore (Chrysler Eng.)

CYL. HEAD & PARTS		
VALVE	PART NO. SIZE	DESCRIPTION
Intake	<b>V-1344</b> Std Only	H-318 & HT-318 Engs.; 2 groove; 1.8440" Head Dia., .3725" Stem Dia., 4.6000" O.A.L.
Intake	V-1722 Std-5-15	LH-318 & LT-318 Engs.; 2 groove; 1.7800" Head Dia., .3725" Stem Dia., 4.9790" O.A.L.
Exhaust	<b>V-1343</b> Std Only	H-318, HT-318 Engs.; 4 groove; 1.5630" Head Dia., .3715" Stem Dia., 4.5390" O.A.L.
Exhaust	<b>V-1389</b> Std Only	HT-318 Engs.; 2 groove; 1.5630" Head Dia., .3715" Stem Dia., 4.5390" O.A.L.
Exhaust	V-2029 Std-5-15	LH-318 & LT-318 Engs.; 4 groove; Chrome plated stem; 1.5000" Head Dia., .3715" Stem Dia., 5.0020" O.A.L.
Exhaust, Bulk	V-2029B15 15	LH-318 & LT-318 Engs.; 4 groove; Chrome plated stem; Carton of 25; 1.5000" Head Dia., .3914" Stem Dia., 5.0020" O.A.L.
Keeper	VK-138	1 groove; Square cut key groove; Carton pack 32
Keeper	VK-138R	1 groove; Square cut key groove; Hardened
Keeper	VK-66	2 groove
Keeper	VK-66R	2 groove; Hardened
Keeper	VK-174	4 groove
Keeper	VK-174R	4 groove; Hardened
	Intake Intake Intake Exhaust Exhaust Exhaust Exhaust Exheper Keeper Keeper Keeper Keeper Keeper Keeper	PART NO.         SIZE           Intake         V-1344 Std Only           Intake         V-1722 Std-5-15           Exhaust         V-1343 Std Only           Exhaust         V-1389 Std Only           Exhaust         V-2029 Std-5-15           Exhaust, Bulk         V-2029B15 15           Keeper         VK-138R           Keeper         VK-66           Keeper         VK-66R           Keeper         VK-66R           Keeper         VK-174



Free Height	<b>40</b> Combine <b>H-318, LH-318 Engs. (Gas)</b> (cont.) 5.2L 318 OHV V8, 3.9063" Bore (Chrysler Eng.)				
OTTY   VALVE (core.)   PART NO.   SIZE   DESCRIPTION   1   1   1   1   1   1   1   1   1		CYL. HEAD & PARTS (cont.)			
Aut.   SEAT	QTY		PART NO.	SIZE	
B   Exh.   245-1687-28 isd only   245-1687-28 isd only   245-1687-2 six only   245-1687-18 ixd only   245-1687-18 ix	16	Keeper, Bulk	VK-138B		1 groove; Square cut key groove; Carton of 1000
8   htt.         245-1687-2 su only Use wV-1343; 16925* OD, 1.4875* ID, 2160* Depth           GTY         VALVE GUIDE         PART NO.         SUE         DESCRIPTION           8 Guide         VG-5062         NG-5063         H.1, 3735* ID, 2.800* O.A.L.         H.1, 3735* ID, 2.800* O.A.L.           0TY         VALVE SPRING         PART NO.         SIZE         DESCRIPTION           16 Spring         VS-4880         Eh. H.1-318 Engs.; 1.8800* Free Height           16 Spring         VS-480         Eh. H.1-318 Engs.; 1.8900* Free Height           16 Spring         VS-480         Eh. A. Int.; 534 coils - R.H.; LH-318 & LT-318 Engs.; 1.8800* Free Height           16 Spring         VS-435         Eh. A. Int.; 614 coils - L.H.; LH-318 & LT-318 Engs.; 2.0000* Free Height           16 Spring         VS-1435         Eh. A. Int.; 614 coils - L.H.; LH-318 & LT-318 Engs.; 2.0000* Free Height           16 Spring         VS-1435         Eh. A. Int.; 614 coils - L.H.; LH-318 & LT-318 Engs.; 1.8800* Free Height           16 Push Rod         RP-3030         RP-3145         Int.; HT-318 Engs.; 1.9850* Free Height           16 Push Rod         RP-3194         Int.; HT-318 Engs.; 2130* Col.; 1.9850* Free Height           16 Push Rod         RP-3194         Int.; HT-318 Engs.; Carton of 250; 1.9850* Free Height           16 Push Rod         RP-3194         Int.; HT-318 Engs.; C		_		_	Use w/V-1343; Premium Material; 1.6925" OD, 1.4375" ID,
8 Guide VG-5062 8 Guide VG-5033 Int; 3735* ID, 2.8800* O.A.L.  OTY VALVE SPRING 8 Spring 9 VS-680 8 Spring 9 VS-680 16 Spring 9 VS-680 17 VS-680 18 Spring 9 VS-680 18 Spring 9 VS-680 18 Spring 9 VS-680 18 Spring 19 VS-680 19 Spring 10 Spring 10 Spring 10 Spring 10 Spring 11 Spring 11 Spring 12 Spring 13 Spring 14 Spring 15 Spring 16 Spring 16 Spring 17 Spring 18 Spring 18 Spring 19 VS-1435 18 Spring 19 VS-1435 18 Spring, Bulk 19 Spring, Bulk 19 Spring, Bulk 10 Spring 11 Spring, Bulk 11 Spring, Bulk 12 Spring, Bulk 12 Spring, Bulk 13 Spring, Bulk 14 Spring, Bulk 15 Spring, Bulk 16 Spring 16 Spring 17 Pole Height 16 Spring 18 Lift-1318 Engs.; 1,8600* Free Height 18 Spring 19 Spring 19 Spring 10 Spring 11 Spring 11 Spring 11 Spring 11 Spring 12	8	Int.	,		
8   Suide   VG-5033   Int.; 3735* ID, 2,6200* O.A.L.	1			SIZE	
ALVE SPRING	1				
16   Spring   VS-1435   Exh. & Int; H-318 Engs; 1.9850* Free Height   Fish, & Int; 5.94 colls. P.H.; LH-318 & LT-318 Engs; 1.8800   Free Height   Fish, & Int; 6.1/4 colls. L.H.; LH-318 & LT-318 Engs; 1.2000*   Free Height   Fish, & Int; 6.1/4 colls. L.H.; LH-318 & LT-318 Engs; 2.0000*   Free Height   Fish, & Int; H-318 Engs; 1.9650* Free Height   Exh. & Int; H-318 Engs; 1.360*   Int; H-318 Engs; 1.360* Int; H-318 Engs; 1.360* Int; H-318 Engs; 1.360* Int; H-318 Engs; 1.360* Int; H-318 Engs; 1.360* Int; H-318 Engs; 1.360* Int; H-318 Engs; 1.360* Int; H-318 Engs; 1.360* Int; H-318 Engs; 1.360* Int; H-318 Engs; 1.360* Int; H-318 Engs; 1.360* Int; H-318 Engs; 1.360* Int; H-318 Engs; 1.360* Int; H-318 Engs; 1.360* Int; H-318 Engs; 1.360* Int; H-318 Eng	QTY	VALVE SPRING	PART NO.	SIZE	
Exh. & Int.; of 34 coils - R.H.; LH-318 & LT-318 Engs.; 1.8800	8	Spring			
16   Spring	1				Exh. & Int.; 5 3/4 coils - R.H.; LH-318 & LT-318 Engs.; 1.8800"
16   Spring, Bulk	16	Spring	VS-510		Exh. & Int.; 6 1/4 coils - L.H.; LH-318 & LT-318 Engs.; 2.0000"
8   Spring, Bulk   VS-1435B   Int.; HT-318 Engs.; Zarton of 250, 1,9650* Free Height		, ,			
16					Int.; H-318 Engs.; Carton of 250; 1.9650" Free Height Int.; HT-318 Engs.; Carton of 250; 1.9650" Free Height
RP-3194				SIZE	
16	16	Push Rod	RP-3194		.360" dia. ball at one end; 8.7350" O.A.L. LH-318 & LT-318 Engs.; .312" dia. ball at both ends; 7.5000"
8 Valve Stem Seal 8 Valve Stem Seal 8 Valve Stem Seal 9 Valve Stem Seal 9 Valve Stem Seal 10 Valve Stem Seal 11 Valve Stem Seal 12 Valve Stem Seal 12 Valve Stem Seal 13 Valve Stem Seal 14 Valve Stem Seal 15 Valve Stem Seal 16 Valve Stem Seal 16 Valve Stem Seal 17 Valve Stem Seal 18 Valve Stem Seal 18 Valve Stem Seal 10 Valve Stem Seal 10 Valve Stem Seal 10 Valve Stem Seal 10 Valve Stem Seal 11 Valve Stem Seal 12 Valve Stem Seal 13 Valve Stem Seal 14 Valve Stem Seal 15 Valve Stem Seal 16 Valve Stem Seal 16 Valve Stem Seal 16 Valve Stem Seal 17 Valve Stem Seal 18 Valve Stem Seal 19 Valve Stem Seal 10 Valve Stem Seal 10 Valve Stem Seal 10 Valve Stem Seal 10 Valve Stem Seal 11 Valve Stem Seal 12 Valve Stem Seal 14 Valve Stem Seal 15 Valve Stem Seal 16 Valve Stem Seal 16 Valve Stem Seal 17 Valve Stem Seal 18 Valve Stem Seal 19 Valve Stem Seal 19 Valve Stem Seal 10 Valve Stem Seal 11 Valve Stem Seal 12 Valve Stem Seal 12 Valve Stem Seal 14 Valve Stem Seal 15 Valve Stem Seal 16 Valve Stem Seal 16 Valve Stem Seal 16 Valve Stem Seal 17 Valve Stem Seal 18 Valve Stem Seal 18 Valve Stem Seal 19 Valve Stem Seal 10 Valve Stem Seal Seal Int.; Umbrella type; Caton of 100; Polyacrylate 16 Valve Stem Seal 17 Valve Stem Seal 18 Valve Stem Seal 18 Valve Stem Seal Seal 19 Valve Stem Seal Seal Seal 10 Valve Stem Seal Seal Seal 10 Valve Stem Seal Seal Seal Seal 10 Valve Stem Seal Seal Seal Seal 11 Valve Stem Seal Seal Seal Seal Seal Seal Seal Seal	16	Push Rod, Bulk	BRP-3194		LH-318 Engs.; LT-318 Engs.; .312" dia. ball at both ends; Carton
8 Valve Stem Seal         MV-1918         Exh.; Umbrella type; Viton®           8 Valve Stem Seal         MV-1771         Int.; Umbrella type; Polyacrylate           8 Valve Stem Seal Bulk         MV-1771         Int.; Umbrella type; Polyacrylate           OTY ROCKER PARTS         PART NO.         SIZE         DESCRIPTION           8 Arm         R.861         R.962         R.H.; LH-318 & LT-318 Engs.           8 Arm, Bulk         R.961B         L.H.; LH-318 & LT-318 Engs.; Carton of 64           R Arm, Bulk         R.962B         R.H.; LH-318 & LT-318 Engs.; Carton of 64           CAMSHAFT GROUP           OTY TIMING         PART NO.         SIZE         DESCRIPTION           LH-318 Engs.; Incl. silent type chain; Incl. (1) 222-361, (1)           223-358, (1) 223-359         H-318 Engs.; Silent type; 68 Links           1 Crank Sprocket         223-359         LH-318 Engs.; Use w/silent type chain; .750" wide sprocket; 23 Teeth           1 Cam Sprocket         223-358         LH-318 Engs.; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth           1 Camshaft         CS-645         LH-318 Engs.; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth           16 Lifter, Bulk         AT-2084 Std Only         H-318 Engs.; Hyd.           16 Lifter, Bulk         AT-2084 Std Only	1			SIZE	
8   Valve Stem Seal Bulk   MV-1771C   Int.; Umbrella type; Carton of 100; Polyacrylate	1				
8   Valve Stem Seal Bulk   MV-1771	1				
8 Arm         R-861         L.H.; LH-318 & LT-318 Engs.           8 Arm, Bulk         R-862         R.H.; LH-318 & LT-318 Engs.; Carton of 64           8 Arm, Bulk         R-861B         L.H.; LH-318 & LT-318 Engs.; Carton of 64           CAMSHAFT GROUP           TIMING         PART NO.         SIZE         DESCRIPTION           1 3 Piece Set         KT3-361S         LH-318 Engs.; Incl. silent type chain; Incl. (1) 222-361, (1) 223-358, (1) 223-358, (1) 223-359           1 Timing Chain         222-348         H-318 Engs.; Silent type; 68 Links           1 Timing Chain         223-274         H-318 Engs.; Use w/silent type; 68 Links           1 Crank Sprocket         223-359         LH-318 Engs.; Use w/silent type chain; .750" wide sprocket; 23 Teeth           1 Crank Sprocket         223-358         LH-318 Engs.; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth           1 Cam Sprocket         223-358         LH-318 Engs.; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth           1 Cam Sprocket         223-358         LH-318 Engs.; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth           1 Lifter         AT-2084 Std Only         H-318 Engs.; Dumbbell shaped mech.           1 Lifter         HT-2011 Std Only         H-318 Engs.; Hyd.           1 Lifter, Bulk         HT-2011 Std Only         H-318 Engs.; Hyd.; w/2	1		_		
8 Arm, Bulk         R-861 B         R-861B         L.H.; LH-318 & LT-318 Engs.; Carton of 64           8 Arm, Bulk         R-862B         L.H.; LH-318 & LT-318 Engs.; Carton of 64           CAMSHAFT GROUP           QTY TIMING         PART NO.         SIZE         DESCRIPTION           1 3 Piece Set         KT3-361S         LH-318 Engs.; Incl. silent type chain; Incl. (1) 222-361, (1) 223-359, (1) 23-359, (1) 23-35				SIZE	
8         Arm, Bulk Arm, Bulk Arm, Bulk Arm, Bulk         R-861B R-862B         L.H.; LH-318 & LT-318 Engs.; Carton of 64 R.H.; LH-318 Engs.; Carton of 64           CAMSHAFT GROUP           QTY         TIMING         PART NO. KT3-361S         SIZE         DESCRIPTION           1         1 Sing Chain         222-348         LH-318 Engs.; Islent type; 68 Links           1         1 Timing Chain         222-348         LH-318 Engs.; Silent type; 68 Links           1         1 Crank Sprocket         223-351         LH-318 Engs.; Silent type; 68 Links           1         1 Crank Sprocket         223-359         H-318 Engs.; Use w/silent type chain; .750" wide sprocket; 23 Teeth           1         1 Cam Sprocket         223-358         LH-318 Engs.; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth           1 Cam Sprocket         223-358         LH-318 Engs.; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth           1 Cam Sprocket         223-358         LH-318 Engs.; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth           1 Cam Sprocket         223-358         LH-318 Engs.; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth           1 Cam Sprocket         223-358         LH-318 Engs.; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth           1 Lifter         AT-2084 Std Only         H-318 Engs.; Use w/silent type chain; .405	1				
R-862B					
TIMING	1				
Timing Chain   Crank Sprocket   Crank		CAMSHAFT GROUP			
Timing Chain Crank Sprocket Chall Engs.; Use w/silent type chain; .405 "tooth width sprocket; 23 Teeth Chall Sprocket Chall Sprocket Cam Sprock				SIZE	LH-318 Engs.; Incl. silent type chain; Incl. (1) 222-361, (1)
1 Crank Sprocket 223-359 1 Crank Sprocket 223-359 23-358 23-358 23-358 23-358 24-318 Engs.; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth 23-358 24-318 Engs.; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth 24-318 Engs.; Use w/silent type chain; .405" tooth width sprocket; 23 Teeth 25-26-45 26		Timing Chain			
sprocket; 23 Teeth LH-318 Engs.; Use w/silent type chain; 46 Teeth  Cam Sprocket  CAMSHAFT/LIFTER Camshaft Camshaft CS-645 Lifter AT-2084 Std Only H-318 Engs.; Dumbbell shaped mech. Lifter HT-879 Std Only H-318 Engs.; Dumbbell shaped mech. H-318 Engs.; Hyd. H-318 Engs.; Hyd.; w/2 grooves LH-318 Engs.; Hyd.; w/2 grooves LH-318 Engs.; Dumbbell shaped mech.; Carton of 117 Lifter, Bulk Lifter, Bulk Lifter, Bulk Lifter, Bulk HT-2011 Std Only H-318 Engs.; Dumbbell shaped mech.; Carton of 117 LH-318 Engs.; Dumbbell shaped mech.; Carton of 117 LH-318 Engs.; Hyd.; w/2 grooves; Carton of 117 LH-318 Engs.; Premium valve stem seals incl. W/2 Bbl. Carb.; Premium valve stem seals incl. W/4 Bbl. Carb.; Premium valve stem seals incl.	l				H-318 Engs.; Use w/silent type chain; .750" wide sprocket; 23
QTY CAMSHAFT/LIFTER Camshaft CS-645 Lifter AT-2084 Std Only H-318 Engs.; Dumbbell shaped mech. H-318 Engs.; Hyd. H-318 Engs.; Hyd. H-318 Engs.; Hyd. H-318 Engs.; Hyd. H-318 Engs.; Hyd.; w/2 grooves Lifter, Bulk Lifter, Bulk Lifter, Bulk Lifter, Bulk HT-2011 Std Only H-318 Engs.; Hyd.; w/2 grooves H-318 Engs.; Hyd.; w/2 grooves H-318 Engs.; Hyd.; w/2 grooves LH-318 Engs.; Hyd.; w/2 grooves H-318 Engs.; Hyd.; w/2 grooves LH-318 Engs.; Hyd.; w/2	1	Crank Sprocket	223-359		
1		<u> </u>			
16 Lifter AT-2084 Std Only Lifter HT-879 Std Only H-318 Engs.; Dumbbell shaped mech. 16 Lifter HT-2011 Std Only Lifter, Bulk AT-2084B Std Only H-318 Engs.; Hyd.; w/2 grooves 16 Lifter, Bulk AT-2084B Std Only H-318 Engs.; Dumbbell shaped mech. Carton of 117 16 Lifter, Bulk HT-2011B Std Only LH-318 Engs.; Hyd.; w/2 grooves; Carton of 117 17 Lifter, Bulk HT-2011B Std Only Prelube S5-400 4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.  ENGINE BLOCK & PARTS  QTY GASKET SETS PART NO. SIZE DESCRIPTION 1 Kit Gasket Set 260-1154 W/2 Bbl. Carb.; Premium valve stem seals incl. W/4 Bbl. Carb.; Premium valve stem seals incl. 20 CAM BEARINGS PART NO. SIZE DESCRIPTION 1 Cam Set 1484M Std Only SIZE DESCRIPTION 2 DESCRIPTION 3 SIZE DESCRIPTION 4 DESCRIPTION 5 SIZE DESCRIPTION				SIZE	
Lifter HT-879 Std Only HT-2011 Std Only Lifter, Bulk AT-2084B Std Only Lifter, Bulk HT-2011B Std Only Prelube HT-2011B Std Only Std Only Prelube HT-2011B Std Only Std Only Std Only Prelube HT-2011B Std Only Std Only Std Only Std Only Prelube HT-2011B Std Only Std					
16 Lifter, Bulk Lifter, Bulk Lifter, Bulk Prelube 155-400 HT-2011B Std Only Prelube 155-400 LH-318 Engs.; Dumbbell shaped mech.; Carton of 117 LH-318 Engs.; Hyd.; w/2 grooves; Carton of 117 4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.  ENGINE BLOCK & PARTS  QTY GASKET SETS PART NO. Kit Gasket Set 260-1154 W/2 Bbl. Carb.; Premium valve stem seals incl. W/4 Bbl. Carb.; Premium valve stem seals incl.  QTY CAM BEARINGS PART NO. SIZE DESCRIPTION  1 Cam Set 1484M Std Only SIZE DESCRIPTION			,		H-318 Engs.; Hyd.
Lifter, Bulk Prelube  ENGINE BLOCK & PARTS  ENGINE BLOCK & PARTS  PART NO. 1 Kit Gasket Set 260-1121 1 Kit Gasket Set 260-1121 260-1121  EMBEARINGS PART NO. 1 Cam Set 1484M std Only  LH-318 Engs.; Hyd.; w/2 grooves; Carton of 117 4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.  LH-318 Engs.; Hyd.; w/2 grooves; Carton of 117 4 oz. bottle; 1.5 oz. packet No. 55-403 also avail.  ENGINE BLOCK & PART NO. 260-1154 260-1154 260-1121 2					
The state of the s		· ·	,		
QTYGASKET SETSPART NO.SIZEDESCRIPTION1Kit Gasket Set260-1154W/2 Bbl. Carb.; Premium valve stem seals incl.1Kit Gasket Set260-1121W/4 Bbl. Carb.; Premium valve stem seals incl.QTYCAM BEARINGSPART NO.SIZEDESCRIPTION1Cam Set1484M std Only			,		
1 Kit Gasket Set 260-1154 W/2 Bbl. Carb.; Premium valve stem seals incl. 1 Kit Gasket Set 260-1121 W/4 Bbl. Carb.; Premium valve stem seals incl.  QTY CAM BEARINGS PART NO. SIZE DESCRIPTION 1 Cam Set 1484M std Only		ENGINE BLOCK & PARTS			
1 Kit Gasket Set  260-1121  W/4 Bbl. Carb.; Premium valve stem seals incl.  QTY CAM BEARINGS 1 Cam Set  PART NO. 1484M Std Only	QTY	GASKET SETS	PART NO.	SIZE	
QTY CAM BEARINGS PART NO. SIZE DESCRIPTION 1 Cam Set 1484M Std Only	1				
1 Cam Set 1484M Std Only	$\vdash$			0.==	*
(continued on post page)			1484M Std Only		



Combine H-318, LH-318 Engs. (Gas) 40 5.2L 318 OHV V8, 3.9063" Bore (Chrysler Eng.) (cont.)

			5.2L 318 Off v v8, 3.9063 Bore (Offrysler Efig.) (cont.)
CRANKSHAFT/OIL PUMP			
CRANKSHAFT Harmonic Balancer Sleeve	PART NO. 88218	SIZE	DESCRIPTION
SEALS - FRONT CRANK Redi-Sleeve Oil Seal	PART NO. 99218 3103	SIZE	DESCRIPTION
SEALS - REAR CRANK Oil Seal Kit	<i>PART NO.</i> 5414	SIZE	DESCRIPTION
MAIN BEARINGS Main Set	<b>PART NO. 5024MA</b> Std-1-10-20-30	SIZE	A-Series aluminum bearings; 3.530" max. flange OD; Pos. 1 upper brg. grooved
Main Set	<b>4923MA</b> Std-1-10-20-30-40-50-60		W/3.374" max. flange OD.; A-Series aluminum bearings
OIL PUMP Oil Pump	PART NO. 224-4166	SIZE	DESCRIPTION
CYLINDER COMPONENTS			
PISTONS Powerforged	<b>PART NO.</b> <b>L-2329F30</b> 30	SIZE	LH-318 Engs.; To Ser. No. E-169358.; Repl. O.E. No. 3004509; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.759" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs. DUROSHIELD® skirt
Forged Piston - Individual	WL-2329F30 30		coated piston. LH-318 Engs.; To Ser. No. E-169358.; Repl. O.E. No. 3004509; Powerforged; 2-5/64", 1-3/16" Ring Groove, 1.759" CD, .9842" Pin Dia., Flat Head w/4 valve reliefs. DUROSHIELD® skirt coated piston.
Pin Bushing	2134Y		odatou piotoii.
CONNECTING RODS &			
Rod Set	8-2130CP Std-1-10-	SIZE	<b>DESCRIPTION</b> 8-2130CA 60 avail. as unplated & resizeable
Rod Set Rod Pair	8-2130CA60 60		Unplated & resizeable
PISTON RINGS	PART NO.	SIZE	
Premium Set	<b>E-178K</b> Std-20-30-40-		2-5/64, 1-3/16
Standard Set	<b>E-178X</b> Std-20-30-40-		2-5/64, 1-3/16
Premium Single Cylinder Set	WE-178K Std-20-30- 40-60		2-5/64, 1-3/16
Standard Single Cylinder Set	<b>WE-178X</b> Std-20-30-40-60		2-5/64, 1-3/16
	CRANKSHAFT Harmonic Balancer Sleeve  SEALS - FRONT CRANK Redi-Sleeve Oil Seal  SEALS - REAR CRANK Oil Seal Kit  MAIN BEARINGS Main Set  Main Set  OIL PUMP Oil PUMP Oil Pump  CYLINDER COMPONENTS  PISTONS Powerforged  Forged Piston - Individual  Pin Bushing  CONNECTING RODS & BRGS. Rod Set Rod Set Rod Pair  PISTON RINGS Premium Set  Standard Set  Premium Single Cylinder Set	CRANKSHAFT Harmonic Balancer Sleeve         PART NO. 88218           SEALS - FRONT CRANK Redi-Sleeve Oil Seal         PART NO. 99218 3103           SEALS - REAR CRANK Oil Seal Kit         PART NO. 5414           MAIN BEARINGS Main Set         PART NO. 5024MA Std-1-10-20- 30 4923MA Std-1-10-20- 30-40-50-60           OIL PUMP Oil Pump         PART NO. 224-4166           CYLINDER COMPONENTS           PISTONS Powerforged         PART NO. L-2329F30 30           Forged Piston - Individual         WL-2329F30 30           Pin Bushing         2134Y           CONNECTING RODS & BRGS. Rod Set         PART NO. L-230-40-50 8-2130CP Std-1-10-20-30-40-50 30-40           Rod Set         8-2130CP Std-1-2-10-20-30-40-60 60           PISTON RINGS Premium Set         PART NO. E-178K Std-20-30-40-60 60           Standard Set         E-178K Std-20-30-40-60 60           Standard Single Cylinder Set         WE-178K Std-20-30-40-60 WE-178K Std-20-30-40-60	CRANKSHAFT Harmonic Balancer Sleeve         PART NO. 88218         SIZE           SEALS - FRONT CRANK Redi-Sleeve Oil Seal         PART NO. 99218 3103         SIZE           SEALS - REAR CRANK Oil Seal Kit         PART NO. 5414         SIZE           Main BEARINGS Main Set         PART NO. 9024MA Std-1-10-20- 30-40-50-60         SIZE           Main Set         4923MA Std-1-10-20- 30-40-50-60         SIZE           CYLINDER COMPONENTS         PART NO. 224-4166         SIZE           CYLINDER COMPONENTS         PART NO. 224-4166         SIZE           Powerforged         L-2329F30 30         SIZE           Forged Piston - Individual         WL-2329F30 30         SIZE           Fond Set         8-2130CP Std-1-10- 20-30-40-50-60         SIZE           Rod Set         8-2130CP Std-1-10- 20-30-40-50-60         SIZE           Rod Set         8-2130CP Std-1-2-10-20- 30-40         SIZE           PISTON RINGS         PART NO. 2130CP Std-1-2-10-20- 30-40-60         SIZE           Standard Set         E-178K Std-20-30-40- 60         WE-178K Std-20-30-40- 60           Standard Single Cylinder Set         WE-178K Std-20-30- 40-60         WE-178K Std-20-30-

Wheel Tractor A336BD, 336, 336B, 336BD Engs. (Diesel). Crawler Tractor A336BD, 336, 336B, 336BD Engs. (Diesel).
 Excavator A336BD, 336, 336B, 336BD Engs. (Diesel). Wheel Skidder A336BD, 336, 336B, 336BD Engs. (Diesel).
 S55L 336 Diesel L4, 4.625" Bore

	CYL. HEAD & PARTS			
QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-A58626		Early style; 45 deg. seat; Chrome plated stem; Replaces O.E. Nos. A41754 & A58626
4	Intake	FP-A182172		Late style; 30 deg. seat; Chrome plated stem; Replaces O.E. Nos. A44575, A66193 & A182172
4	Exhaust	FP-A182173		Chrome plated stem; 1.7500" Head Dia., .4015" Stem Dia., 6.4280" O.A.L.
4	Exhaust	FP-V2422X		Optional stellite face; Chrome plated stem; Replaces O.E. No. A150225; 1.7500" Head Dia., .4015" Stem Dia., 6.4300" O.A.L.
16	Keeper	FP-A27872		
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	FP-A11803		.4050" ID, 3.2200" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-A66444		
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
4	Rotocap	FP-A66336		Exh.



41 Wheel Tractor A336BD, 336, 336B, 336BD Engs. (Diesel). Crawler Tractor A336BD, 336, 336B, 336BD Engs. (Diesel). Wheel Loader A336BD, 336, 336B, 336BD Engs. (Diesel). Excavator A336BD, 336, 336BD Engs. (Diesel). Wheel Skidder A336BD, 336, 336BD Engs. (Diesel). 5.5L 336 Diesel L4, 4.625" Bore

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	CYL. HEAD & PARTS (cont.)			
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-A58628		O-Ring style
	ENGINE BLOCK & PARTS			
QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PGE336LC		From Ser. No. 2539001; May be used before Ser. No. 2539001 if
	Commission Occasional Constrat Cont	ED DOESSES		Cntr. Bores are re-worked & 5.19" Dia. firewall sleeves are used.
1	Complete Overhaul Gasket Set	FP-PGE336EC	0175	To Ser. No. 2539000 w/5.09" Dia. firewall sleeves
QIY 1	CAM BEARINGS Cam Set	<i>PART NO.</i> FP-A23577		DESCRIPTION W/2.250" dia. brgs.
		11-A20011	010	VV/2.250 dia. bigs.
	CRANKSHAFT/OIL PUMP			
	MAIN BEARINGS	PART NO.	_	DESCRIPTION Ontional main act w/a thrust weeker
1 1	Main Set Main Set	FP-7039M FP-7039M10		Optional main set w/o thrust washer Optional main set w/o thrust washer
lil	Main Set	FP-7039M20	Std-10-20	
1	Thrust Washer Set	FP-A62572S		Position 3; .156" Thick
1	Thrust Washer Set	FP-A62573S		Position 3; .186" Thick
2	Thrust Washer Pc.	FP-A62572		Position 3; .156" Thick
2	Thrust Washer Pc.	FP-A62573	STD	Position 3; .186" Thick
	CYLINDER COMPONENTS			
QTY	LINERS	PART NO.	SIZE	
4	Liner w/o Sealing Rings	FP-A153638		From Ser. No. 2539001. For blocks w/5.427" counterbore dia.;
				Sleeve has 5.19" dia. firewall; May be used before Ser. No.
4	Liner w/o Cooling Dingo	ED A10010E		2539001 if the counterbores are reworked.  To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores;
4	Liner w/o Sealing Rings	FP-A182185		Sleeve has 5.09" dia. firewall; Counterbores may be reworked
				to use FP-A153638WS sleeve with 3 sealing rings and 5.19"
				dia. firewall.
4	Liner w/Sealing Rings	FP-A153638WS	STD	
				Sleeve has 5.19" dia. firewall & (3) FP-2387248 sealing rings;
				May be used before Ser. No. 2539001 if the counterbores are
4	Liner w/Sealing Rings	FP-A182185WS	STD	reworked. To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores;
4	Linei Woeding Hings	11-A102103W3	010	Sleeve has 5.09" dia. firewall & (2) FP-2387157 sealing rings;
				Counterbores may be reworked to use FP-A153638WS sleeve
				with 3 sealing rings and 5.19" dia. firewall.
4	Cylinder Kit Complete	FP-A166134	STD	From Ser. No. 2539001; w/1.625" dia. piston pins; Contains
		ED 01/E100000	OTD	FP-A153638 sleeve and FP-A166122 piston
4	Cylinder Kit Complete	FP-CK51233638	SID	From Ser. No. 2539001; w/1.800" dia. piston pins; Contains FP-A153638WS sleeve and FP-A65123WP piston
4	Cylinder Kit Complete	FP-A460251		To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores;
	Symbol Rit Complete	11 74400201		Sleeve has 5.09" dia. firewall & (2) FP-2387157 sealing rings;
				Counterbores may be reworked to use FP-A153638WS sleeve
				with 3 sealing rings and 5.19" dia. firewall; Contains
	Cylinder Kit Complete	FP-CK61222185		FP-A182185 sleeve and FP-A65123 piston
4	Cylinder Kit Complete	FF-UN01222185		To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores; Sleeve has 5.09" dia. firewall & (2) FP-2387157 sealing rings;
				Counterbores may be reworked to use FP-A153638WS sleeve
				with 3 sealing rings and 5.19" dia. firewall; Contains
_	0 11 51 11			FP-A182185 sleeve and FP-A166122 piston
12	Sealing Ring, Liner	FP-2387248		Use w/FP-A153638 Liner
8 <b>OTV</b>	Sealing Ring, Liner	FP-2387157	0:75	Use w/FP-A182185 Liner
QIY 4	PISTONS Piston Body w/o Pin	<i>PART NO.</i> FP-A166122	SIZE	<b>DESCRIPTION</b> From Ser. No. 2539001; Use w/1.625" dia. piston pins
4	Piston Body w/o Pin	FP-A65123		From Ser. No. 2539001; Use w/1.800" dia. piston pins
4	Piston Kit w/Pin & Retainers	FP-A166122WP	STD	
				1-3/16 Ring Groove; Dish Head .812" deep x 2.680" dia. w/2
				valve reliefs; 16.1:1 C.R.
4	Piston Kit w/Pin & Retainers	FP-A65123WP	STD	
				1-1/4 Ring Groove; Dish Head .865" deep x 2.680" dia. w/2
4	Pin	FP-A140607		valve reliefs Use w/FP-A166122 piston
4	Pin	FP-A58584		Use w/FP-A65123 piston; 1.800" Dia.
8	Piston Pin Retainer	FP-10021162		Use w/FP-A166122 piston
8	Piston Pin Retainer	FP-10021181		Use w/FP-A65123 piston
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Wheel Tractor A336BD, 336, 336B, 336BD Engs. (Diesel). Crawler Tractor A336BD, 336, 41 336B, 336BD Engs. (Diesel). Wheel Loader A336BD, 336, 336BD Engs. (Diesel). (cont.) Excavator A336BD, 336, 336B, 336BD Engs. (Diesel). Wheel Skidder A336BD, 336, 336B, 336BD Engs. (Diesel). Concrete Placer A336BD, 336, 336BD Engs. (Diesel). 5.5L 336 Diesel L4, 4.625" Bore

	CYLINDER COMPONENTS (cont.)					
QTY	PISTONS (cont.)	PART NO.	SIZE	DESCRIPTION		
4	Pin Bushing	FP-A58580		W/1.800" pin dia.		
	CONNECTING RODS &					
QTY	BRGS.	PART NO.	SIZE	DESCRIPTION		
4	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.		
4	Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.		
4	Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.		
4	Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.		
4	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.		
4	Rod Pair	FP-A4317340	40	2.7490" Crank Pin Dia.		
4	Rod Pair	FP-A41758	STD	2.9990" Crank Pin Dia.		
4	Rod Pair	FP-A41900		2.9990" Crank Pin Dia.		
4	Rod Pair	FP-A41901		2.9990" Crank Pin Dia.		
4	Rod Pair	FP-A41902	30	2.9990" Crank Pin Dia.		
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION		
4	Ring Set Single Cylinder	FP-A42988	STD	Check piston grooving before supplying ring set; 1-1/8, 1-3/32, 1-1/4; 2 cyl. set; Use w/piston FP-A65123		
4	Ring Set Single Cylinder	FP-A48320	STD	Check piston grooving before supplying ring set; 2-3/32, 1-3/16; 2 cyl. set; Use w/piston FP-A166122		
2	Premium Set	FP-A42988S	STD	Check piston grooving before supplying ring set; 1-1/8, 1-3/32, 1-1/4; 2 cyl. set; Use w/piston FP-A65123		
2	Premium Set	FP-A48320S	STD	Check piston grooving before supplying ring set; 2-3/32, 1-3/16; 2 cyl. set; Use w/piston FP-A166122		
	KITS					
QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION		
1	Complete Overhaul Kit	FP-IFK336L		From Ser. No. 2539001; Late liner; Must specify the correct cylinder kit when ordering this kit; w/5.427" counterbore dia.		
1	Complete Overhaul Kit	FP-IFK336E		To Ser. No. 2539000; Early liner; Must specify the correct cylinder kit when ordering this kit; w/5.386" counterbore dia.		

Wheel Tractor A336BDT, 336BDT Engs. (Turbo-Diesel). Crawler Tractor A336BDT, 336BDT Engs. (Turbo-Diesel). Wheel Loader A336BDT, 336BDT Engs. (Turbo-Diesel). Excavator A336BDT, 336BDT Engs. (Turbo-Diesel). Wheel Skidder A336BDT, 336BDT Engs. (Turbo-Diesel). Concrete Placer A336BDT, 336BDT Engs. (Turbo-Diesel). 5.5L 336 Turbo-Diesel L4, 4.625" Bore

	CYL. HEAD & PARTS			
QTY	VALVE	PART NO.	SIZE	DESCRIPTION
4	Intake	FP-A58626		Early style; 45 deg. seat; Chrome plated stem; Replaces O.E. Nos. A41754 & A58626
4	Intake	FP-A182172		Late style; 30 deg. seat; Chrome plated stem; Replaces O.E. Nos. A44575, A66193 & A182172
4	Exhaust	FP-A182173		Chrome plated stem; 1.7500" Head Dia., .4015" Stem Dia., 6.4280" O.A.L.
4	Exhaust	FP-V2422X		Optional stellite face; Chrome plated stem; Replaces O.E. No. A150225; 1.7500" Head Dia., .4015" Stem Dia., 6.4300" O.A.L.
16	Keeper	FP-A27872		
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
8	Guide	FP-A11803		.4050" ID, 3.2200" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
8	Spring	FP-A66444		
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
4	Rotocap	FP-A66336		Exh.
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
8	Valve Stem Seal	FP-A58628		O-Ring style
	ENGINE BLOCK & PARTS			
QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PGE336LC		From Ser. No. 2539001; May be used before Ser. No. 2539001 if Cntr. Bores are re-worked & 5.19" Dia. firewall sleeves are used.
1	Complete Overhaul Gasket Set	FP-PGE336EC		To Ser. No. 2539000 w/5.09" Dia. firewall sleeves



Wheel Tractor A336BDT, 336BDT Engs. (Turbo-Diesel). Crawler Tractor A336BDT,
 336BDT Engs. (Turbo-Diesel). Wheel Loader A336BDT, 336BDT Engs. (Turbo-Diesel). Excavator A336BDT, 336BDT Engs. (Turbo-Diesel). Wheel Skidder A336BDT, 336BDT Engs. (Turbo-Diesel). Concrete Placer A336BDT, 336BDT Engs. (Turbo-Diesel).
 5.5L 336 Turbo-Diesel L4, 4.625" Bore

	3.3E 300 Tulbo-Diesel E-1, 4.025 Dole						
_	ENGINE BLOCK & PARTS (cont.)						
	CAM BEARINGS	PART NO.	_	DESCRIPTION			
1	Cam Set	FP-A23577	STD	W/2.250" dia. brgs.			
	CRANKSHAFT/OIL PUMP						
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION			
1	Main Set	FP-7039M	Std-10-20	Optional main set w/o thrust washer			
1	Main Set	FP-7039M10		Optional main set w/o thrust washer			
1	Main Set Thrust Washer Set	FP-7039M20 FP-A62572S		Optional main set w/o thrust washer Position 3; .156" Thick			
	Thrust Washer Set	FP-A62573S		Position 3; .186" Thick			
2	Thrust Washer Pc.	FP-A62572	STD	Position 3; .156" Thick			
2	Thrust Washer Pc.	FP-A62573	STD	Position 3; .186" Thick			
	CYLINDER COMPONENTS						
QTY	LINERS	PART NO.	SIZE	DESCRIPTION			
4	Liner w/o Sealing Rings	FP-A153638		From Ser. No. 2539001. For blocks w/5.427" counterbore dia.;			
				Sleeve has 5.19" dia. firewall; May be used before Ser. No. 2539001 if the counterbores are reworked.			
4	Liner w/o Sealing Rings	FP-A182185		To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores;			
				Sleeve has 5.09" dia. firewall; Counterbores may be reworked			
				to use FP-A153638WS sleeve with 3 sealing rings and 5.19"			
4	Liner w/Sealing Rings	FP-A153638WS	STD	dia. firewall. From Ser. No. 2539001. For blocks w/5.427" counterbore dia.;			
			0.2	Sleeve has 5.19" dia. firewall & (3) FP-2387248 sealing rings;			
				May be used before Ser. No. 2539001 if the counterbores are			
4	Liner w/Sealing Rings	FP-A182185WS	STD	reworked. To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores;			
-	Line wooding rungs	11 4102100110	015	Sleeve has 5.09" dia. firewall & (2) FP-2387157 sealing rings;			
				Counterbores may be reworked to use FP-A153638WS sleeve			
4	Cylinder Kit Complete	FP-A1521771	STD	with 3 sealing rings and 5.19" dia. firewall. From Ser. No. 2539001; Contains FP-A153638 sleeve; May be			
4	Cylinder Kit Complete	FF-A1321771	310	used before Ser. No. 2539001 if the cntr. bores are reworked.			
4	Cylinder Kit Complete	FP-CK24852185	STD	To Ser. No. 2539000; Contains FP-A182185 sleeve			
12	Sealing Ring, Liner	FP-2387248		Use w/FP-A153638 Liner			
8	Sealing Ring, Liner	FP-2387157		Use w/FP-A182185 Liner			
QTY 4	PISTONS Piston Body w/o Pin	<i>PART NO.</i> FP-A146697	SIZE	DESCRIPTION Cast; 2-1/8, 1-3/16 Ring Groove; Dish Head .790" deep x 2.680"			
4	ristori body w/o r iii	1 F-A140037		dia. w/2 valve reliefs; 16.1:1 C.R.			
4	Piston Body w/o Pin	FP-A152485		Cast; 2-1/8, 1-3/16 Ring Groove; Dish Head .790" deep x 2.680"			
,	Dietas Kitus/Die 9 Deteiners	ED 4440007WD		dia. w/2 valve reliefs; 16.1:1 C.R.			
4	Piston Kit w/Pin & Retainers	FP-A146697WP		Cast; 2-1/8, 1-3/16 Ring Groove; Dish Head .790" deep x 2.680" dia. w/2 valve reliefs; 16.1:1 C.R.			
4	Piston Kit w/Pin & Retainers	FP-A152485WP	STD	Cast; 2-1/8, 1-3/16 Ring Groove; Dish Head .790" deep x 2.680"			
				dia. w/2 valve reliefs; 16.1:1 C.R.			
4 8	Pin Picton Pin Potoipor	FP-A58584		1.800" Dia.			
8 4	Piston Pin Retainer Pin Bushing	FP-10021181 FP-A58580		W/1.800" pin dia.			
	CONNECTING RODS &			Transport and			
	BRGS.	PART NO.	SIZE	DESCRIPTION			
4	Rod Pair	FP-A43173		2.7490" Crank Pin Dia.			
4	Rod Pair	FP-A43174		2.7490" Crank Pin Dia.			
4	Rod Pair Rod Pair	FP-A43175 FP-A43176		2.7490" Crank Pin Dia. 2.7490" Crank Pin Dia.			
4	Rod Pair	FP-A43177		2.7490 Crank Pin Dia.			
4	Rod Pair	FP-A4317340	40	2.7490" Crank Pin Dia.			
4	Rod Pair	FP-A41758		2.9990" Crank Pin Dia.			
4 4	Rod Pair Rod Pair	FP-A41900 FP-A41901		2.9990" Crank Pin Dia. 2.9990" Crank Pin Dia.			
4	Rod Pair	FP-A41901 FP-A41902		2.9990 Grank Pin Dia. 2.9990" Crank Pin Dia.			
	PISTON RINGS	PART NO.		DESCRIPTION			
4	Ring Set Single Cylinder	FP-A44054		Check piston grooving before supplying ring set; 2-1/8, 1-3/16; 2			
	- ·	ED 4440-10		cyl. set			
2	Premium Set	FP-A44054S	STD	Check piston grooving before supplying ring set; 2-1/8, 1-3/16 (2			
	cyl. set)						



Wheel Tractor A336BDT, 336BDT Engs. (Turbo-Diesel). Crawler Tractor A336BDT, 42
336BDT Engs. (Turbo-Diesel). Wheel Loader A336BDT, 336BDT Engs. (Turbo-Diesel). (cont.)

Excavator A336BDT, 336BDT Engs. (Turbo-Diesel). Wheel Skidder A336BDT, 336BDT

Engs. (Turbo-Diesel). Concrete Placer A336BDT, 336BDT Engs. (Turbo-Diesel).

5.5L 336 Turbo-Diesel L4, 4.625" Bore

	KITS			
QTY	OVERHAUL KIT	PART NO. SI	IZE	DESCRIPTION
1	Complete Overhaul Kit	FP-IFK336L		Models 870, W14 & 780CK w/1.800" pin dia. From Ser. No. 2539001. May be used before Ser. No. 2359001 if the cntr. bores are reworked.; Must specify the correct cylinder kit when ordering this kit; w/5.427" counterbore dia.
1	Complete Overhaul Kit	FP-IFK336E		Models 870, W14 & 780CK w/1.800" pin dia. To Ser. No. 2539000; Must specify the correct cylinder kit when ordering this kit; w/5.386" counterbore dia.

Wheel Tractor A6.354, H6.354, 6.354 Engs. (Diesel) 43
5.8L 354 OHV Diesel L6 (12 Valve). 3.875" Bore (Perkins Eng.)

		3.6L	334 UF	1V Diesei L6 (12 Valve), 3.875 Bore (Perkins Eng.)
	CYL. HEAD & PARTS			
<b>QTY</b> 6 6 24	VALVE Intake Exhaust Keeper	PART NO. FP-V1701 FP-V1700 FP-VK223	SIZE	<b>DESCRIPTION</b> 1.7440" Head Dia., .3730" Stem Dia., 4.8290" O.A.L. 1.4400" Head Dia., .3725" Stem Dia., 4.8570" O.A.L.
<b>QTY</b> 6 6	VALVE GUIDE Guide Guide	PART NO. FP-VG619 FP-VG620	SIZE	<b>DESCRIPTION</b> Exh.; .3755" ID, 2.4060" O.A.L. Int.; .3755" ID, 2.2810" O.A.L.
<b>QTY</b> 12	VALVE SPRING Spring	PART NO. FP-VS1432	SIZE	<b>DESCRIPTION</b> Outer; 2.5780" Free Height
<b>QTY</b> 12	VALVE SEAL Valve Stem Seal	PART NO. ST-2004	SIZE	DESCRIPTION Exh.; Positive type; Installation requires valve guide machining; Rubber/PTFE
6 12	Valve Stem Seal Valve Stem Seal Bulk	MV-1598C ST-2004BC		Int.; Umbrella type; Rubber Exh.; Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
6	Valve Stem Seal Bulk	MV-1598		Int.; Umbrella type; Carton of 100; Rubber
	CRANKSHAFT/OIL PUMP			
1 1 1	MAIN BEARINGS Main Set Thrust Washer Set Thrust Washer Set	PART NO. FP-4352M FP-3137BFA FP-3137BF	Std Only Std Only	<b>DESCRIPTION</b> T6-354 & T6-354.2 Engs. Only Position 4; Engs. From Ser. No. 8504189 Position 4; To Ser. No. 8504188
	CYLINDER COMPONENTS			
<b>QTY</b> 6	LINERS Dry Sleeve	PART NO. FP-SL382M		DESCRIPTION 6-354 Engs.; Flanged sleeve w/firewall. Early blocks may require machining for flanged sleeve (instructions incl.)
6	Sleeve Assy.	FP-SL2193	Std Only	
<b>QTY</b> 6	PISTONS Cast Piston	PART NO. FP-2193PX	SIZE Std Only	<b>DESCRIPTION</b> 6-354 Engs.; Cast; 3-3/32", 2-1/4" Ring Groove, 2.757" CD, 1.3750" Pin Dia., Recessed Head 1.00" deep x 2.125" dia 16.0:1 C.R.; Repl. O.E. Nos. MF-738871M91, 2236105
6	Pin Bushing	FP-3139Y15		
<b>QTY</b> 3	PISTON RINGS Premium Set	PART NO. FP-9194KX	_	DESCRIPTION 6-354 Engs.; 3-3/32, 2-1/4 (2 cyl. set); Do not use w/Chrome liners
3 6	Standard Set Premium Single Cylinder Set	FP-9596X W-9194KX Std Only	Std Only	6-354 Engs.; 3-3/32, 2-1/4 (2 cyl. set) 6-354 Engs.; 3-3/32, 2-1/4 (2 cyl. set); Do not use w/Chrome liners
6	Standard Single Cylinder Set	W-9596X Std Only		6-354 Engs.; 3-3/32, 2-1/4 (2 cyl. set)

Power Unit. Wheel Tractor "B" Series, 6B5.9 (6-590) (Naturally Aspirated). Crawler Tractor. 44
5.9L 359 (5882cc) OHV Diesel L6, 102mm Bore (Cummins Eng.)

	CYL. HEAD & PARTS			
QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
6	Valve Cover Gasket	FP-3930906		
1	Head Gasket	FP-3283570		Standard Head Gasket; Standard Thickness
1	Head Set	FP-3802363		From 1984-1990; Standard Thickness Head Gasket
1	Head Set	FP-3804897		From 1991-4/2003
1	Head Set	FP-4089649		From 4/2003



44 Power Unit. Wheel Tractor "B" Series, 6B5.9 (6-590) (Naturally Aspirated). Crawler Tractor. (cont.) 5.9L 359 (5882cc) OHV Diesel L6. 102mm Bore (Cummins Eng.)

(cor	(cont.) 5.9L 359 (5882cc) OHV Diesel L6, 102mm Boré (Cummins Eng.)						
	CYL. HEAD & PARTS (cont.)						
<b>QTY</b> 6	GASKETS (cont.) Bolt	PART NO. FP-3920781	SIZE	DESCRIPTION M12 x 1.75 x 180MM Rocker Arm Bolt			
14	HEAD BOLTS Head Bolt	PART NO. FP-3920780	SIZE	DESCRIPTION M12 x 1.75 x 122MM Length M12 x 1.75 x 71 FMM Length			
6 <b>QTY</b> 6	Head Bolt  VALVE Intake	FP-3920779 PART NO. FP-3920867	SIZE	M12 x 1.75 x 71.5MM Length  DESCRIPTION  Bare Valve; Chrome plated stem; 1.7720" Head Dia., .3138"			
6	Exhaust	FP-3920868		Stem Dia., 5.0840" O.A.L. Bare Valve; Chrome plated stem; 1.6540" Head Dia., .3138"			
6 6	Exhaust Valve Kit Intake Valve Kit	FP-3802356 FP-3802355		Stem Dia., 5.0810" O.A.L. Incl. valve & locks Incl. valve & locks			
12 OTV	Keeper VALVE SEAT	FP-3900250 PART NO.	SIZE	DESCRIPTION			
6 6	Exh.	FP-3904105 FP-3906854	SIZL	DESCRIPTION			
<b>QTY</b> 6 6 6	VALVE GUIDE Guide Guide Guide	PART NO. FP-3904409 FP-3904408 FP-3906206	SIZE	DESCRIPTION  Exh.; 6B5.9; Thick wall; .3160" ID, 2.0520" O.A.L.  Int.; 6B5.9; Thick wall; .3160" ID, 2.3970" O.A.L.  Int. & Exh.; 6B5.9; Thin wall; .3162" ID, 2.5000" O.A.L.			
QTY 12 12 12 12 12	VALVE SPRING Spring Spring Spring Spring Spring Retainer	PART NO. FP-4936080 FP-3900276 FP-3926700 FP-3932453 FP-3900299	SIZE	DESCRIPTION  1.8800" Free Height  30 PSI; 2.2350" Free Height  36 PSI; 2.3850" Free Height  36 PSI; 2.5500" Free Height			
<b>QTY</b> 12 1	PUSH RODS Push Rod Push Rod Cover Gasket	PART NO. FP-3284377 FP-3284623	SIZE	DESCRIPTION 10.9100" O.A.L.			
QTY 1	VALVE MISC. O-Ring	PART NO. FP-3910824	SIZE	<b>DESCRIPTION</b> Valve Cover Screw; .364" I.D. x .070" Thick			
12 12 12 12	VALVE SEAL Valve Stem Seal Valve Stem Seal Valve Stem Seal Valve Stem Seal	PART NO. FP-3921640 FP-3957912 FP-3901097 +	SIZE	DESCRIPTION Int. & Exh. Int. & Exh.; Top Hat style; Viton® Int. & Exh.; When depleted use FP-3921640			
<b>QTY</b> 6 6	ROCKER PARTS Rocker Lever Exhaust Rocker Lever Intake	PART NO. FP-3910810 FP-3910811	SIZE				
	INT & EXH MANIFOLDS	11-3310011		nii.			
_	INT. & EXH. MANIFOLDS Exhaust Manifold Gasket Int. Manif. Cover Plate Gskt.	PART NO. FP-3905443 FP-3914029	SIZE	DESCRIPTION			
	CAMSHAFT GROUP						
QTY 1	TIMING COVER Oil Filler Cap	<i>PART NO.</i> FP-101322	SIZE	DESCRIPTION 2"			
<b>QTY</b> 1 12	CAMSHAFT/LIFTER Camshaft Lifter	PART NO. FP-3929042 FP-3931623	SIZE	DESCRIPTION			
	FUEL SYSTEM & PARTS						
6	FUEL INJECTION Fuel Injector Seal Ring	PART NO. FP-3909356	SIZE				
6 6 6	Fuel Injector Sleeve Fuel Injector Seal Copper Washer Fuel Line Connector	FP-3919358 FP-3930324 FP-3906659 FP-3903380		For 9mm head  For 7mm head; 1.50MM Thick Banjo connector; 6mm; Banjo connector			
QTY 1 1 1 1	FUEL FILTERS & PUMP Fuel Transfer Pump Fuel Transfer Pump Fuel Transfer Pump Cover Plate Gasket	PART NO. FP-4983584 * FP-3970880 + FP-4944713 FP-3939258	SIZE	DESCRIPTION Diaphragm style Diaphragm style; When depleted use FP-4983584 144.7 - 201.2 LPH; 1/4 x 18 NPTF Fuel Inlet Fuel Transfer Pump Mounting			
QTY 1	TURBOCHARGER Turbocharger Mounting Gasket	PART NO. FP-3901356	SIZE	DESCRIPTION			



Power Unit. Wheel Tractor "B" Series, 6B5.9 (6-590) (Naturally Aspirated). Crawler Tractor. 5.9L 359 (5882cc) OHV Diesel L6, 102mm Bore (Cummins Eng.) (cont.) **COOLING SYSTEM** QTY WATER PUMP PART NO. SIZE DESCRIPTION Water Pump - Heavy Duty FP-3286277 Water Pump Seal Ring FP-3906698 1 Water pump mounting; Rectangular Ring **DESCRIPTION** QTY **THERMOSTAT** PART NO. SIZE 180 Deg. F Thermostat FP-3917324 180 Deg. F; Includes Thermostat, Template and O-ring FP-3802273 1 Thermostat Kit **ENGINE BLOCK & PARTS GASKETS** PART NO. **DESCRIPTION** Oil Pan Gasket FP-3959052 Washer FP-3920773 Sealing; Oil Pan Plug; 18.40MM I.D. x 1.5MM Thick QTY **GASKET SETS** PART NO. SIZE DESCRIPTION Gasket Conversion Set FP-3802376 Incl. seals In-Frame Gasket Set FP-3802363S From 1984-1990; Standard Thickness Head Gasket CAM BEARINGS QTY PART NO. SIZE DESCRIPTION Cam Brg. FP-3940059 STD From 1997 and up (Storm Blocks) 1 Cam Brg. FP-3901306 STD To 1996 QTY **OIL COOLERS & FILTERS** PART NO. SIZE **DESCRIPTION** Oil Cooler FP-3957544 7 Plate Oil Cooler Core Inner Gasket FP-3926760 Inner; Core Oil Cooler Core Outer Gasket FP-3929792 Outer; Core CRANKSHAFT/OIL PUMP QTY **CRANKSHAFT** PART NO. SIZE **DESCRIPTION** Crankshaft FP-3929037 With Gear Crank Gear FP-3929027 **SEALS - FRONT CRANK** PART NO. **DESCRIPTION** Oil Seal FP-3937111 FP-3938156 Gear Housing Gasket FP-3802820 Oil Seal Kit Incl. wear sleeve 1 Redi-Sleeve FP-3906080 QTY **SEALS - REAR CRANK** SIZE DESCRIPTION PART NO. Flywheel Housing; Single Lip; Dry Clutch Oil Seal FP-3909410 Oil Seal FP-3909411 Wet flywheel housing; Double Lip; Wet Clutch Redi-Sleeve FP-3906081 1 **DESCRIPTION** QTY **MAIN BEARINGS** PART NO. SIZE Main Set FP-3802070 STD .25MM Main Set FP-3802071 Main Set FP-3802072 .50MM Main Set FP-3802073 .75MM Main Set FP-3802074 1.00MM QTY OIL PUMP SIZE DESCRIPTION PART NO. FP-4939587 Oil Pump Pick-Up Tube Gasket FP-3938157 1 CYLINDER COMPONENTS QTY LINERS PART NO. SIZE **DESCRIPTION** Liner w/o Sealing Rings FP-3904166 To return block to Standard QTY **PISTONS** PART NO. SIZE **DESCRIPTION** Piston Body w/o Pin FP-3906223 STD 17.3:1 C.R. 6 Piston Body w/o Pin FP-3906209 .50MM 17.3:1 C.R. 6 Piston Body w/o Pin FP-3906208 1.00MM 17.3:1 C.R. 6 Piston Kit w/Pin & Retainers FP-3906223WP 6 STD 17.3:1 C.R. Piston Kit w/Pin & Retainers 6 FP-3906209WP .50MM 17.3:1 C.R. Piston Kit w/Pin & Retainers FP-3906208WP 1.00MM 17.3:1 C.R. 6 Piston w/Retainer & Rings FP-3802060 STD 17.3:1 C.R. Piston w/Retainer & Rings FP-3802062 .50MM 17.3:1 C.R. 6 Piston w/Retainer & Rings FP-3802064 1.00MM 17.3:1 C.R. 6 Piston w/Pin, Retainer, Rings FP-PK6223 STD 17.3:1 C.R. 6 6 Piston w/Pin, Retainer, Rings FP-PK6209 .50MM 17.3:1 C.R. Piston w/Pin. Retainer. Rings 6 FP-PK6208 1.00MM 17.3:1 C.R. Pin FP-3934048 6 12 Piston Pin Retainer FP-3920691 Pin Bushing 6 FP-4891178 For fracture split rods 6 Pin Bushing FP-3901085 For machine split rods



**44** Power Unit. Wheel Tractor "B" Series, 6B5.9 (6-590) (Naturally Aspirated). Crawler Tractor. (cont.) 5.9L 359 (5882cc) OHV Diesel L6, 102mm Bore (Cummins Eng.)

	CYLINDER COMPONENTS (cont.)						
	CONNECTING RODS &						
QTY	BRGS.	PART NO.	SIZE	DESCRIPTION			
12	Con. Rod Bolt	FP-3900919		For machine split rods; MJ11 - 1.25 X 59mm			
6	Rod Pair	FP-3967060	STD	For fracture split rods			
6	Rod Pair	FP-3967061	.25MM	For fracture split rods			
6	Rod Pair	FP-3967062	.50MM	For fracture split rods			
6	Rod Pair	FP-3967063	.75MM	For fracture split rods			
6	Rod Pair	FP-3967064	1.00MM	For fracture split rods			
12	Rod Bearing Half Upper/Lower	FP-3939859	STD	For machine split rods			
12	Rod Bearing Half Upper/Lower	FP-3901171	.25MM	For machine split rods			
12	Rod Bearing Half Upper/Lower	FP-3901172	.50MM	For machine split rods			
12	Rod Bearing Half Upper/Lower	FP-3901173	.75MM	For machine split rods			
12	Rod Bearing Half Upper/Lower	FP-3901174	1.00MM	For machine split rods			
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION			
1	Ring Set Single Cylinder	FP-3802040	STD	1-2.40MM, 1-2.36MM, 1-4.00MM (1 cyl. set)			
1	Ring Set Single Cylinder	FP-3802042	.50MM	1-2.40MM, 1-2.36MM, 1-4.00MM (1 cyl. set)			
1	Ring Set Single Cylinder	FP-3802044	1.00MM	1-2.40MM, 1-2.36MM, 1-4.00MM (1 cyl. set)			
	KITS						
QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION			
1	Piston Kit w/Ring Set	FP-PK12742B					
1	Piston Kit w/Rings & Bearings	FP-PK22742B					
1	In-Frame Overhaul Kit	FP-6B59PREML		6B5.9; Late; Premium; With Upper Gasket Set & Pan Gasket			
1	In-Frame Overhaul Kit	FP-6B59PREM		6B5.9; Premium; With Upper Gasket Set & Pan Gasket			
1	Complete Overhaul Kit	FP6B5.9PREM-OH	L	6B5.9; Late; 1991 to Present; Premium; With Front & Rear Seals and Upper & Lower Gasket Sets			
1	Complete Overhaul Kit	FP-6B59PREMOH		6B5.9; Pre 1991; Premium; With Front & Rear Seals and Upper & Lower Gasket Sets			

45 Combine 6BT5.9 (6T-590) (Turbo), 6BTA5.9 (6TA-590) (Turbo-Aftercooled Diesel). Cotton Picker. Loader. Power Unit. Wheel Tractor 6BT5.9 (6T-590) Eng. (Turbo-Diesel). Windrower. Crawler Tractor 6BT5.9 (6T-590) Eng. (Turbo-Diesel). Wheel Loader. Excavator. 5.9L 359 (5882cc) OHV Turbo-Diesel L6 (12 Valve), 102mm Bore (Cummins Eng.)

	CYL. HEAD & PARTS					
QTY	GASKETS	PART NO.	SIZE	DESCRIPTION		
1	Valve Cover Gasket	FP-3930906		Standard		
1	Head Gasket	FP-3283337		.25MM Oversize Thickness		
1	Head Gasket	FP-3283339		.50MM Oversize Thickness		
1	Head Gasket	FP-3283570		Standard; Standard Thickness		
1	Head Set	FP-3802364		.25MM Oversize Thickness Head Gasket		
1	Head Set	FP-3802245		.50MM Oversize Thickness Head Gasket		
1	Head Set	FP-3802363		Standard Thickness Head Gasket		
6	Grommet	FP-3900267		Cam Follower Cover		
QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION		
14	Head Bolt	FP-3920780		M12 x 1.75 x 122MM Length		
6	Head Bolt	FP-3920779		M12 x 1.75 x 71.5MM Length		
QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION		
1	Fuel Manifold	FP-3926103				
6	Bolt	FP-3920781		Rocker Lever Shaft Support; M12 x 1.75 x 180MM Rocker Arm Bolt		
QTY	VALVE	PART NO.	SIZE	DESCRIPTION		
6	Intake	FP-3920867		Bare Valve; Chrome plated stem; 1.7720" Head Dia., .3138" Stem Dia., 5.0840" O.A.L.		
6	Exhaust	FP-3920868		Bare Valve; Chrome plated stem; 1.6540" Head Dia., .3138" Stem Dia., 5.0810" O.A.L.		
6	Exhaust Valve Kit	FP-3802356		Incl. valve & locks		
6	Intake Valve Kit	FP-3802355		Incl. valve & locks		
24	Keeper	FP-3900250				
QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION		
6	Exh.	FP-3904105				
6	Int.	FP-3906854				
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION		
6	Guide	FP-3904409		Exh.; Thick wall; .3160" ID, 2.0520" O.A.L.		
6	Guide	FP-3904408		Int.; Thick wall; .3160" ID, 2.3970" O.A.L.		
6	Guide	FP-3906206		Int. & Exh.; Thin wall; .3162" ID, 2.5000" O.A.L.		



Combine 6BT5.9 (6T-590) (Turbo), 6BTA5.9 (6TA-590) (Turbo-Aftercooled Diesel). Cotton Picker. Loader. Power Unit. Wheel Tractor 6BT5.9 (6T-590) Eng. (Turbo-Diesel). Windrower. (cont.)

Crawler Tractor 6BT5.9 (6T-590) Eng. (Turbo-Diesel). Wheel Loader. Excavator.

5.9L 359 (5882cc) OHV Turbo-Diesel L6 (12 Valve), 102mm Bore (Cummins Eng.)

	5.9	L 359 (5882cc) OH	v Turbo-i	Diesei L6 (12 vaive), 102mm Bore (Cummins Eng.)
	CYL. HEAD & PARTS (cont.)			
	VALVE SPRING	PART NO. FP-4936080	SIZE	DESCRIPTION 1.8800" Free Height
12	Spring	FP-3900276		30 PSI; 2.2350" Free Height
12	Spring	FP-3926700		36 PSI; 2.3850" Free Height
12	Spring	FP-3932453		36 PSI; 2.5500" Free Height
12	Retainer	FP-3900299		
	PUSH RODS	PART NO.	SIZE	DESCRIPTION
12	Push Rod Push Rod Cover Gasket	FP-3284377 FP-3284623		10.9100" O.A.L.
1			0.75	PEGGPIPTION
Q   Y	VALVE MISC. O-Ring	PART NO. FP-3910824	SIZE	<b>DESCRIPTION</b> Valve Cover Screw; .364" I.D. x .070" Thick
	VALVE SEAL		CIZE	DESCRIPTION
12		<i>PART NO.</i> FP-3921640	SIZE	Int. & Exh.
12		FP-3957912		Int. & Exh.; Top Hat style; Viton®
12	Valve Stem Seal	FP-3901097 +		Int. & Exh.; When depleted use FP-3921640
QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
12	Adjusting Screw Nut	FP-203131		3/8" - 24 UNF
6	Bolt	FP-3920781		Rocker Lever Shaft Support; M12 x 1.75 x 180MM Rocker Arm
6	Support, Rocker Lever	FP-3922488		Bolt
6	Rocker Lever Exhaust	FP-3910810		
6	Rocker Lever Intake	FP-3910811		
12	Washer	FP-3900245		Rocker Lever; M19
12	Snap Ring	FP-3900242		Rocker Lever
	INT & EXH MANIFOLDS			
QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-3905443		
1	Int. Manif. Cover Plate Gskt.	FP-3914029		
	AIR INTAKE	PART NO.	SIZE	DESCRIPTION
1	Air Intake Gasket	FP-3969988		
	CAMSHAFT GROUP			
QTY 1	CAMSHAFT/LIFTER Camshaft	PART NO. FP-3929042	SIZE	<b>DESCRIPTION</b> CPL Numbers 596-600, 691, 697-8, 713-4, 716, 728-9, 742, 761, 766, 791-2, 802, 804, 834, 845, 912, 938, 940, 947, 949, 953, 961-2, 970, 983, 994, 998-9, 1160, 1163, 1165, 1168, 1174, 1189, 1207, 1245-7, 1266, 1279, 1288-9, 1313, 1322, 1351,
1	Camshaft	FP-3929041		1403, 1408, 1433, 1440, 1554, 1570, 1578-9, 1581, 1601, 1605, 1613, 1694.  CPL Numbers 987, 1261, 1422 1527 & 1582
12	Lifter	FP-3931623		OF L Nullibers 907, 1201, 1422 1327 & 1302
	FUEL SYSTEM & PARTS			
	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
4	Grommet	FP-3900267	JIZL	Fuel Drain Tube
6	Fuel Injector Seal Ring	FP-3909356		
6	Fuel Injector Sleeve	FP-3919358		For 9mm head
6 6	Fuel Injector Seal Copper Washer	FP-3930324 FP-3906659		For 7mm head; 1.50MM Thick
6	Fuel Line Connector	FP-3900039 FP-3903380		Banjo connector; 6mm head; Banjo connector
	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION DESCRIPTION
1	Fuel Transfer Pump	FP-4983584 *		Diaphragm style
1	Fuel Transfer Pump	FP-3970880 +		Diaphragm style; When depleted use FP-4983584
1	Fuel Transfer Pump Cover Plate Gasket	FP-4944713 FP-3931348		144.7 - 201.2 LPH; 1/4 x 18 NPTF Fuel Inlet Fuel Transfer Pump Mounting
1	Cover Plate Gasket	FP-3939258		Fuel Transfer Pump Mounting  Fuel Transfer Pump Mounting
1	Solenoid Repair Kit	FP-3903575		Fuel Transfer Pump
1	Solenoid Repair Kit	FP-3903576		Fuel Transfer Pump; 24V
6	Washer	FP-3900808		Sealing
2	Washer Fuel Filter Gasket	FP-3918188 FP-3906694		Sealing; Fuel Supply Tube Large
1	Fuel Filter Gasket	FP-3906695		Small
	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION
1	Turbocharger Mounting Gasket	FP-3901356		



Combine 6BT5.9 (6T-590) (Turbo), 6BTA5.9 (6TA-590) (Turbo-Aftercooled Diesel). Cotton Picker. Loader. Power Unit. Wheel Tractor 6BT5.9 (6T-590) Eng. (Turbo-Diesel). Windrower. Crawler Tractor 6BT5.9 (6T-590) Eng. (Turbo-Diesel). Wheel Loader. Excavator. 5.9L 359 (5882cc) OHV Turbo-Diesel L6 (12 Valve), 102mm Bore (Cummins Eng.)

	0.02 000 (000200) 0.111 10.00 0.00			37
	COOLING SYSTEM			
QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION
1	Water Pump - Heavy Duty	FP-3286277	J.——	
1	Ball Brg.	FP-3910739		Fan Drive
1	Water Pump Seal Ring	FP-3906698		Water pump mounting; Rectangular Ring
1	O-Ring	FP-3883284		Air Intake Connection; For 3.00" Dia. Turbocharger elbow
1	O-Ring	FP-3923331		Thermostat Housing Cover
1	Shaft & Bearing Assembly	FP-3923517		The model is to to to
1	V Belt	FP-3911587		53.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911557		56 X 1.125"; Ribbed 8
1	V Belt	FP-3911588		56.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911568		57 X 1.125"; Ribbed 8
1	V Belt	FP-3911558		59 X 1.125"; Ribbed 8
1	V Belt	FP-3911563		60.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911572		61.5 X 1.125"; Ribbed 8
1	V Belt	FP-3911559		62 X 1.125"; Ribbed 8
1	V Belt	FP-3034946		62.5 X 1.125"; Ribbed 8
1 1	V Belt	FP-3911575		63 X 1.125"; Ribbed 8
1	V Belt	FP-3911582		70 X 1.125"; Ribbed 8
-				
	THERMOSTAT	PART NO.	SIZE	DESCRIPTION
1	Thermostat	FP-3917324		180 Deg. F
1	Thermostat Kit	FP-3802273		180 Deg. F; Includes Thermostat, Template and O-ring
	ENGINE BLOCK & PARTS			
<b>—</b>		DARTNO	CIZE	DESCRIPTION
	GASKETS Oil Rep Cooket	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-3959052		Cooling: Oil Bon Plug
1	Washer	FP-3902425		Sealing; Oil Pan Plug
1	Washer	FP-3920773		Sealing; Oil Pan Plug; 18.40MM I.D. x 1.5MM Thick
1	O-Ring	FP-3913994		
1	Gear Cover Gasket	FP-3918673		Took Division Occurs
1	Rect. or Square Seal	FP-3903475		Tach Drive Cover
QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-3802376		Incl. seals
1	In-Frame Gasket Set	FP-3802364S		.25MM Oversize Thickness Head Gasket
1	In-Frame Gasket Set	FP-3802245S		.50MM Oversize Thickness Head Gasket
1	In-Frame Gasket Set	FP-3802363S		Standard Thickness Head Gasket
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-3940059		From 1997-Up (Storm Blocks)
1	Cam Brg.	FP-3901306		To 1996
	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION
1	Oil Cooler	FP-3957544		7 Plate
1	Oil Press. Reg. Low Pressure	FP-3918428		Oil Press. Regulator Plunger
1	O-Ring	FP-3909397		Oil Cooler
1	Oil Cooler Core Inner Gasket	FP-3926760		Core
1	Oil Cooler Core Outer Gasket	FP-3929792		
QTY	FREEZE PLUGS	PART NO.	SIZE	DESCRIPTION
1	Expansion Plug	FP-3900687		
4	Expansion Plug	FP-3007635		1.00" Dia.
	CRANKSHAFT/OIL PUMP			
	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION
1	Crankshaft	FP-3929037		With Gear
1	Crank Gear	FP-3929027		Front
QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-3937111		Front
1	Oil Seal Kit	FP-3802820		Front; Incl. wear sleeve
1	Gear Housing Gasket	FP-3938156		Front
1	Redi-Sleeve	FP-3906080		Front
1	O-Ring	FP-3913994		Front
1	Rect. or Square Seal	FP-3915772		Front
OTV	SEALS - REAR CRANK	PART NO.	CIZE	DESCRIPTION
	Oil Seal	FP-3909410	SIZE	Rear; Single Lip; Dry Clutch
1	Oil Seal Oil Seal Kit			
1	Redi-Sleeve	FP-3926126		Single Lip; Dry Clutch; Incl. Wear Sleeve
1	Rear Cover Gasket	FP-3906081		Rear
1		FP-3928493		Poor: Pootongular
1	Rect. or Square Seal	FP-3912473		Rear; Rectangular
		(continue		



Combine 6BT5.9 (6T-590) (Turbo), 6BTA5.9 (6TA-590) (Turbo-Aftercooled Diesel). Cotton Picker. Loader. Power Unit. Wheel Tractor 6BT5.9 (6T-590) Eng. (Turbo-Diesel). Windrower. (cont.) Crawler Tractor 6BT5.9 (6T-590) Eng. (Turbo-Diesel). Wheel Loader. Excavator. 5.9L 359 (5882cc) OHV Turbo-Diesel L6 (12 Valve), 102mm Bore (Cummins Eng.)

	5.9L	359 (5882cc) OH\	/ Turbo-I	Diesel L6 (12 Valve), 102mm Bore (Cummins Eng.)
	CRANKSHAFT/OIL PUMP (cont.)			
	MAIN BEARINGS	PART NO.		DESCRIPTION
1	Main Set	FP-3802070	STD	
1 1	Main Set Main Set	FP-3802071 FP-3802072	.25MM .50MM	
	Main Set	FP-3802072 FP-3802073	.75MM	
ĺi	Main Set	FP-3802074	1.00MM	
1	Main Set	FP-3357480	STD	Brazil engs.
ОТУ	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump	FP-4939587	0.22	22001 11011
1	Pick-Up Tube Gasket	FP-3938157		
1	Pick-Up Tube Gasket	FP-3914383 +		When depleted use FP-3938157
	CYLINDER COMPONENTS			
QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Rings	FP-3904166		To return block to Standard
	PISTONS	PART NO.		DESCRIPTION
6	Piston Body w/o Pin	FP-3907156		6BTA5.9; Early; 16.5:1 C.R.
6	Piston Body w/o Pin	FP-3907157 FP-3907158		6BTA5.9; Early; 16.5:1 C.R.
6 6	Piston Body w/o Pin Piston Body w/o Pin	FP-3907156 FP-3907163		6BTA5.9; Early; 16.5:1 C.R. 6BT5.9; Early; 17.5:1 C.R.
6	Piston Body w/o Pin	FP-3908815		6BT5.9; Early; 17.5:1 C.R.
6	Piston Body w/o Pin	FP-3908816		6BT5.9; Early; 17.5:1 C.R.
6	Piston Kit w/Pin & Retainers	FP-3907156WP	STD	6BTA5.9; Early; 16.5:1 C.R.
6	Piston Kit w/Pin & Retainers	FP-3907157WP		6BTA5.9; Early; 16.5:1 C.R.
6	Piston Kit w/Pin & Retainers	FP-3907158WP		6BTA5.9; Early; 16.5:1 C.R.
6	Piston Kit w/Pin & Retainers	FP-3907163WP	STD	6BT5.9; Early; 17.5:1 C.R.
6	Piston Kit w/Pin & Retainers	FP-3908815WP	.501/11/1	6BT5.9; Early; 17.5:1 C.R.
6	Piston Kit w/Pin & Retainers Piston w/Retainer & Rings	FP-3908816WP FP-3802100		6BT5.9; Early; 17.5:1 C.R. 6BTA5.9; Early; 16.5:1 C.R.
6	Piston w/Retainer & Rings	FP-3802102		6BTA5.9; Early; 16.5:1 C.R.
6	Piston w/Retainer & Rings	FP-3802104		6BTA5.9; Early; 16.5:1 C.R.
6	Piston w/Retainer & Rings	FP-3802160	STD	6BT5.9; Early; 17.5:1 C.R.
6	Piston w/Retainer & Rings	FP-3802132	.50MM	6BT5.9; Early; 17.5:1 C.R.
6	Piston w/Retainer & Rings	FP-3802134	1.00MM	6BT5.9; Early; 17.5:1 C.R.
6	Piston w/Pin, Retainer, Rings	FP-3802711		6BTA5.9; Early; 16.5:1 C.R.
6	Piston w/Pin, Retainer, Rings	FP-PK7157		6BTA5.9; Early; 16.5:1 C.R.
6	Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings	FP-PK7158 FP-3802712		6BTA5.9; Early; 16.5:1 C.R. 6BT5.9; Early; 17.5:1 C.R.
6	Piston w/Pin, Retainer, Rings	FP-PK8815	.50MM	
6	Piston w/Pin, Retainer, Rings	FP-PK8816	1.00MM	6BT5.9; Early; 17.5:1 C.R.
6	Pin	FP-3934048		
6	Piston Pin Retainer	FP-3920691		
6	Pin Bushing	FP-4891178		For fracture split rods
6	Pin Bushing	FP-3901085		For machine split rods
ОТУ	CONNECTING RODS & BRGS.	PART NO.	SIZE	DESCRIPTION
6	Con. Rod Bolt	FP-4891179 *	SIZE	For fracture split rods
12	Con. Rod Bolt	FP-3900919		For machine split rods; MJ11 - 1.25 X 59mm
12	Rod Pair	FP-3967060	STD	For fracture split rods
12	Rod Pair	FP-3967061	.25MM	•
12	Rod Pair	FP-3967062	.50MM	For fracture split rods
12	Rod Pair	FP-3967063	.75MM	·
12	Rod Pair	FP-3967064	1.00MM	For fracture split rods
12 12	Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower	FP-3939859 FP-3901171	STD .25MM	For machine split rods For machine split rods
12	Rod Bearing Half Upper/Lower	FP-3901171 FP-3901172	.50MM	For machine split rods  For machine split rods
12	Rod Bearing Half Upper/Lower	FP-3901173	.75MM	For machine split rods
12	Rod Bearing Half Upper/Lower	FP-3901174	1.00MM	For machine split rods
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-3802230		1-3.00MM, 1-2.36MM, 1-4.00MM (1 cyl. set)
6	Ring Set Single Cylinder	FP-3802232	.50MM	1-3.00MM, 1-2.36MM, 1-4.00MM (1 cyl. set)
6	Ring Set Single Cylinder	FP-3802234	1.00MM	1-3.00MM, 1-2.36MM, 1-4.00MM (1 cyl. set)
	KITS			
QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-6B59PREML		Late; Premium; With Upper Gasket Set & Pan Gasket



Combine 6BT5.9 (6T-590) (Turbo), 6BTA5.9 (6TA-590) (Turbo-Aftercooled Diesel). Cotton Picker. Loader. Power Unit. Wheel Tractor 6BT5.9 (6T-590) Eng. (Turbo-Diesel). Windrower. Crawler Tractor 6BT5.9 (6T-590) Eng. (Turbo-Diesel). Wheel Loader. Excavator. 5.9L 359 (5882cc) OHV Turbo-Diesel L6 (12 Valve), 102mm Bore (Cummins Eng.)

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	KITS (cont.)					
QTY	OVERHAUL KIT (cont.)	PART NO. SIZE	DESCRIPTION			
1	In-Frame Overhaul Kit	FP-6B59PREM	Premium; With Upper Gasket Set & Pan Gasket			
1	Complete Overhaul Kit	FP6B5.9PREM-OHL	Late; 1991 to Present; Premium; With Front & Rear Seals and Upper & Lower Gasket Sets			
1	Complete Overhaul Kit	FP-6B59PREMOH	Pre 1991; Premium; With Front & Rear Seals and Upper & Lower Gasket Sets			
1	Complete Overhaul Kit	FP-OH6B59T	6BT Engs.			
1	Complete Overhaul Kit	FP-OH6B59TA	6BTA Engs.			
1	16 Whool Skiddor ISB 5 0 Engines					

	Complete Overnaul Kit	FP-OH6B591A		6BTA Engs.			
40	Wheel Skidder ISB 5.9 Engines 5.9L 359 (5882cc) OHV Turbo-Diesel L6 (24 Valve), 102mm Bore (Cummins Eng.)						
	CYL. HEAD & PARTS	<u> </u>		, ,			
QTY	GASKETS	PART NO.	SIZE	DESCRIPTION			
1	Valve Cover Gasket	FP-3935878					
1	Head Gasket	FP-3977063		.061" Thickness			
1	Head Set	FP-4090035		.061" Thickness Head Gasket			
	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION M40 v. 4.75 v. 404MA Lamorth			
26	Head Bolt	FP-3927063		M12 x 1.75 x 131MM Length			
	VALVE	PART NO.	SIZE	DESCRIPTION			
12	Intake	FP-3940735		Chrome plated stem; 1.2990" Head Dia., .2756" Stem Dia., 4.9070" O.A.L.			
12	Exhaust	FP-3940734		Chrome plated stem; 1.2990" Head Dia., .2756" Stem Dia.,			
				4.8930" O.A.L.			
12	Exhaust Valve Kit	FP-3802967		Incl. valve & keepers; 1.2990" Head Dia., .2756" Stem Dia.,			
4.0	1 . 1 . 1 . 12	ED 0000004		4.8930" O.A.L.			
12	Intake Valve Kit	FP-3802924		Incl. valve & keepers; 1.2990" Head Dia., .2756" Stem Dia., 4.9070" O.A.L.			
48	Keeper	FP-3940123		Exh. & Int.			
	VALVE SPRING	PART NO.	CIZE	DESCRIPTION			
24	Spring	FP-4936080	SIZE	Exh. & Int.; 1.8800" Free Height			
24	Spring Cap	FP-3943198		Exh. & Int.			
OTY	PUSH RODS	PART NO.	SIZE	DESCRIPTION			
1	Push Rod Cover Gasket	FP-3284623	0.22	22001111 11011			
OTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION			
12	Valve Stem Seal	FP-3955394	OILL	Exh.; Green; For Engs. using HPCR System, Eng. S/N			
				46239409 and above; Green Viton Center; Top Hat style			
12	Valve Stem Seal	FP-3955393		Int.; Yellow; For Engs. using HPCR System, Eng. S/N 46239409 and above; Yellow Viton Center; Top Hat style			
	INT & EXH MANIFOLDS						
QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION			
6	Exhaust Manifold Gasket	FP-3946275					
	CAMSHAFT GROUP						
QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION			
12	Lifter	FP-3942565					
	FUEL SYSTEM & PARTS						
QTY	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION			
6	Copper Washer	FP-3906659		Inj. seal for 7mm injector tip; 1.50MM Thick			
1	O-Ring	FP-3910503		Injector Pump mounting			
	TURBOCHARGER	PART NO.	SIZE	DESCRIPTION			
4	Turbo Stud	FP-3818823		Turbo mounting; Turbocharger mounting studs; M10 x 1.50 x 42MM			
1	Turbocharger Mounting Gasket	FP-3901356		12.000			
	COOLING SYSTEM						
QTY	WATER PUMP	PART NO.	SIZE	DESCRIPTION			
1	Water Pump - Heavy Duty	FP-3286278					
1	Water Pump Mech. Shaft Seal	FP-3029099		Impeller Water nump mounting: Bestengular Bing			
1	Water Pump Seal Ring	FP-3906698		Water pump mounting; Rectangular Ring			
071	ENGINE BLOCK & PARTS	DARTHO	0177	DECORPORA			
QTY 1	GASKETS Oil Pan Gasket	PART NO. FP-3959052	SIZE	DESCRIPTION			
	Oii i aii Gasket		d on no	t naga)			
	(continued on next page)						



Wheel Skidder ISB 5.9 Engines 46
5.9L 359 (5882cc) OHV Turbo-Diesel L6 (24 Valve), 102mm Bore (Cummins Eng.) (cont.)

	5.9L 359 (5882cc) OHV Turbo-Diesel L6 (24 Valve), 102mm Bore (Cummins Eng.) (cont.)							
	ENGINE BLOCK & PARTS (cont.)							
QTY 1	GASKETS (cont.) Hydraulic Pump Gasket	PART NO. FP-3008400	SIZE	DESCRIPTION				
	GASKET SETS	PART NO.	SIZE	DESCRIPTION				
1	Gasket Conversion Set	FP-3800487 *						
	CAM BEARINGS	PART NO.		DESCRIPTION (Starm Placeles)				
1	Cam Brg. Cam Brg.	FP-3940059 FP-3904369		(Storm Blocks) Position 1; O/S				
2	Cam Brg.	FP-3903242		Position 2-5; O/S				
1 .	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION				
1	Oil Cooler Oil Cooler Core Inner Gasket	FP-3957544 FP-3926760		7 Plate				
	FREEZE PLUGS	PART NO.	SIZE	DESCRIPTION				
14	Expansion Plug	FP-3007635		1.00" Dia.				
	CRANKSHAFT/OIL PUMP	545546	0.75	DECORPORA				
QTY 1	CRANKSHAFT Crank Gear	<i>PART NO.</i> FP-3929027	SIZE	DESCRIPTION				
	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION				
1	Oil Seal Oil Seal Kit	FP-3937111 FP-3802820		Front Front; Incl. wear sleeve				
1	Gear Housing Gasket	FP-3938156		Cover				
1	Redi-Sleeve	FP-3906080		Front				
QTY 1	SEALS - REAR CRANK Oil Seal	<i>PART NO.</i> FP-3909411	SIZE	DESCRIPTION Rear; Double Lip; Wet Clutch				
1	Oil Seal	FP-3909410		Rear; Single Lip; Dry Clutch				
1	Oil Seal Kit	FP-3926126		Single Lip; Dry Clutch; Incl. Wear Sleeve				
1	Redi-Sleeve Rear Cover Gasket	FP-3906081 FP-3928493		Rear				
1	Rect. or Square Seal	FP-3912473		Rear; Rectangular				
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION				
1	Main Set Main Set	FP-3802070 FP-3802071	STD .25MM					
1	Main Set	FP-3802072	.50MM					
1	Main Set Main Set	FP-3802073 FP-3802074	.75MM 1.00MM					
QTY	OIL PUMP	PART NO.		DESCRIPTION				
1	Oil Pump	FP-4939587						
1	Rect. or Square Seal Pick-Up Tube Gasket	FP-3903475 FP-3938157		Tach. drive cover Oil pick-up tube				
	CYLINDER COMPONENTS							
QTY	LINERS	PART NO.	SIZE	DESCRIPTION				
6	Liner w/o Sealing Rings	FP-3904166		To return block to Standard				
QTY 6	PISTONS Piston w/Retainer & Rings	PART NO. FP-3800838	<b>SIZE</b> STD	DESCRIPTION				
6	Piston w/Retainer & Rings	FP-3800841	.50MM					
6	Piston w/Retainer & Rings	FP-3800842	1.00MM					
6 6	Piston w/Pin, Retainer, Rings Piston w/Pin, Retainer, Rings	FP-PK0838 FP-PK0841	STD .50MM					
6	Piston w/Pin, Retainer, Rings	FP-PK0842	1.00MM					
6	Pin Biston Bis Batainan	FP-3934047						
12 6	Piston Pin Retainer Pin Bushing	FP-3920691 FP-4891178						
	CONNECTING RODS &							
QTY	BRGS.	PART NO.	SIZE	DESCRIPTION For front was called roads				
12 12	Con. Rod Bolt Con. Rod Bolt	FP-4891179 * FP-3900919		For fracture split rods For machine split rods; MJ11 - 1.25 X 59mm				
6	Rod Pair	FP-3967060		For fracture split rods				
6 6	Rod Pair Rod Pair	FP-3967061 FP-3967062	.25MM .50MM	'				
6	Rod Pair	FP-3967062 FP-3967063	.75MM					
6	Rod Pair	FP-3967064	1.00MM	For fracture split rods				
12 12	Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower	FP-3939859 FP-3901171	STD .25MM	For machine split rods For machine split rods				
12	Rod Bearing Half Upper/Lower	FP-3901171	.50MM	For machine split rods				
12	Rod Bearing Half Upper/Lower	FP-3901173	.75MM	For machine split rods				



<b>4</b> (co	46 Wheel Skidder ISB 5.9 Engines (cont.) 5.9L 359 (5882cc) OHV Turbo-Diesel L6 (24 Valve), 102mm Bore (Cummins Eng.)					
	CYLINDER COMPONENTS (co	nt.)				
<b>QTY</b> 12	CONNECTING RODS & BRGS. (cont.) Rod Bearing Half Upper/Lower	PART NO. FP-3901174	SIZE 1.00MM	<b>DESCRIPTION</b> For machine split rods		
<b>QTY</b> 6 6 6	PISTON RINGS Ring Set Single Cylinder Ring Set Single Cylinder Ring Set Single Cylinder	PART NO. FP-3804990 FP-3806201 FP-3806203	SIZE STD .50MM 1.00MM	DESCRIPTION		
	KITS					
QTY 1	OVERHAUL KIT In-Frame Overhaul Kit	PART NO. FP-IFKISB624V	SIZE	<b>DESCRIPTION</b> For fracture split rods; From 1998.5 to 2006		

1	In-Frame Overhaul Kit	FP-IFKISB624V		For fracture split rods; From 1998.5 to 2006
4	7 Grader QSB 5.9 Engines.	Compactor QSF	3 5 9 F	ingines
<b>-</b>	5.9L 359 (5882cc) OHV Turbo-Di			
	,	coci Lo (Z+ vaive),	102111111	Dore (Odmining Eng.)
	CYL. HEAD & PARTS			
QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Head Gasket	FP-3977063		.061" Thickness
1	Head Set	FP-4089819		
QTY	VALVE	PART NO.	SIZE	DESCRIPTION
12	Intake	FP-3940735		Chrome plated stem; 1.2990" Head Dia., .2756" Stem Dia.,
				4.9070" O.A.L.
12	Exhaust	FP-3940734		Chrome plated stem; 1.2990" Head Dia., .2756" Stem Dia., 4.8930" O.A.L.
12	Exhaust Valve Kit	FP-3802967		Incl. valve & keepers; 1.2990" Head Dia., .2756" Stem Dia., 4.8930" O.A.L.
12	Exhaust Valve Kit	FP-4089672 *	STD	Incl. valve, valve stem seal & keepers
12	Exhaust Valve Kit	FP-4955210 *	STD	Incl. valve, valve stem seal & keepers
12	Intake Valve Kit	FP-3802924		Incl. valve & keepers; 1.2990" Head Dia., .2756" Stem Dia.,
48	Keeper	FP-3940123		4.9070" O.A.L. Exh. & Int.
	•			
	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
24 24	Spring Con	FP-4936080 FP-3943198		Exh. & Int.; 1.8800" Free Height Exh. & Int.
24	Spring Cap	FP-3943190		EXII. & IIII.
	ENGINE BLOCK & PARTS			
QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
1	Oil Pan Gasket	FP-3959052		
1	Oil Pan Gasket	FP-3958165		w/Stamped steel pan, drain on bottom
QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Gasket Conversion Set	FP-4089173		
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Brg.	FP-3940059	STD	(Storm Blocks)
1	Cam Brg.	FP-3904369	STD	Position 1; O/S
2	Cam Brg.	FP-3903242	STD	Position 2-5; O/S
	CRANKSHAFT/OIL PUMP			
	MAIN BEARINGS	PART NO.		DESCRIPTION
1	Main Set	FP-3802070	STD	
1	Main Set	FP-3802071	.25MM	
1 1	Main Set Main Set	FP-3802072 FP-3802073	.50MM .75MM	
	Main Set	FP-3802073 FP-3802074	1.00MM	
-		0002017	1.OOWIN	
	CYLINDER COMPONENTS			
	LINERS	PART NO.	SIZE	DESCRIPTION To return blook to Chandral
6	Liner w/o Sealing Rings	FP-3904166		To return block to Standard
	CONNECTING RODS &	DARTNO	0:==	DECORIDATION
	BRGS.	PART NO.	SIZE	DESCRIPTION  For free true on lit rede
12	Con. Rod Bolt Rod Pair	FP-4891179 * FP-3967060	STD	For fracture split rods For fracture split rods
6	Rod Pair	FP-3967060 FP-3967061		For fracture split rods  For fracture split rods
6	Rod Pair	FP-3967061		For fracture split rods
6	Rod Pair	FP-3967063		For fracture split rods
6	Rod Pair	FP-3967064		For fracture split rods
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		Wheel Tracto	or <b>A377E</b>	<b>3, A377S, 377, 377B Engs. (Gas or LPG) 48</b> 6.2L 377 L6 (Early), 4" Bore
	CYL. HEAD & PARTS			
<b>QTY</b> 12	VALVE GUIDE Guide	PART NO. FP-VG544	SIZE	<b>DESCRIPTION</b> 377 Engs.; Model 930; .4050" ID, 3.5800" O.A.L.
<b>QTY</b> 12	VALVE SPRING Spring	PART NO. FP-A21076	SIZE	DESCRIPTION
<b>QTY</b> 12	VALVE SEAL Valve Stem Seal	PART NO. ST-2001	SIZE	DESCRIPTION Positive type; Installation requires valve guide machining; Rubber/PTFE
12 12	Valve Stem Seal Valve Stem Seal Bulk	FP-A58628 ST-2001BC		377B Eng. only; O-Ring style Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
	ENGINE BLOCK & PARTS			
QTY 1	CAM BEARINGS Cam Set	PART NO. FP-A23544		<b>DESCRIPTION</b> W/2.250" dia. brgs.
	CRANKSHAFT/OIL PUMP			
<b>QTY</b> 1 1	SEALS - FRONT CRANK Redi-Sleeve Oil Seal	PART NO. FP-99260 FP-A157044	SIZE	DESCRIPTION
<b>QTY</b> 1 1	SEALS - REAR CRANK Oil Seal Redi-Sleeve	PART NO. FP-A62050 FP-99475	SIZE	DESCRIPTION
QTY 1 1 1 1 2	MAIN BEARINGS Main Set Main Set Main Set Thrust Washer Set Thrust Washer Pc.	PART NO. FP-7040M FP-7040M10 FP-7040M20 FP-A62572S FP-A62572	Std-10-20 Std-10-20 Std-10-20	DESCRIPTION Optional main set w/o thrust washer; 2.999" Crank Dia. Optional main set w/o thrust washer; 2.999" Crank Dia. Optional main set w/o thrust washer; 2.999" Crank Dia. Optional main set w/o thrust washer; 2.999" Crank Dia. Position 5; .156" Thick Position 5; 2 Required; .156" Thick
	CYLINDER COMPONENTS			
QTY 6	PISTONS Pin Bushing	PART NO. FP-A27846	SIZE	DESCRIPTION 1.500" Pin Dia.
<b>QTY</b> 6 6 6 6 6	CONNECTING RODS & BRGS. Rod Pair	PART NO. FP-A43173 FP-A43174 FP-A43175 FP-A43176 FP-A43177	STD 2 10 20	DESCRIPTION 2.7490" Crank Pin Dia.
	Wheel Tractor 377, 377A	Engs. (Gas o	r LPG).	Crawler Tractor <b>377</b> , <b>377A Engs. (Gas or LPG).</b> 6.2L 377 L6 (Late), 4" Bore
	CYL. HEAD & PARTS			
<b>QTY</b> 12	VALVE GUIDE Guide	PART NO. FP-VG544	SIZE	<b>DESCRIPTION</b> .4050" ID, 3.5800" O.A.L.
<b>QTY</b> 12	VALVE SEAL Valve Stem Seal	PART NO. ST-2001	SIZE	<b>DESCRIPTION</b> Positive type; Installation requires valve guide machining; Rubber/PTFE
12	Valve Stem Seal Bulk	ST-2001BC		Positive type; Installation requires valve guide machining; Carton of 100; Rubber/PTFE
	ENGINE BLOCK & PARTS			
<b>QTY</b> 1	CAM BEARINGS Cam Set	PART NO. FP-A23544	-	<b>DESCRIPTION</b> W/2.250" dia. brgs.
	CRANKSHAFT/OIL PUMP			
<b>QTY</b> 1 1	SEALS - FRONT CRANK Redi-Sleeve Oil Seal	PART NO. FP-99260 FP-A157044	SIZE	DESCRIPTION
<b>QTY</b> 1 1	SEALS - REAR CRANK Oil Seal Redi-Sleeve	PART NO. FP-A62050 FP-99475	SIZE	DESCRIPTION
<b>QTY</b> 1 1	MAIN BEARINGS Main Set Main Set	PART NO. FP-7040M FP-7040M10	<b>SIZE</b> Std-10-20 Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
			nued on nev	



49 Wheel Tractor 377, 377A Engs. (Gas or LPG). Crawler Tractor 377, 377A Engs. (Gas or LPG).

6.2L 377 L6 (Late), 4" Bore

CRANKSHAFT/OIL PUMP (cont.)			
MAIN BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
Main Set	FP-7040M20	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
Main Set	FP-5047M	Std-10-20	W/.186" thick thrust washer
Thrust Washer Set	FP-A62573S	STD	Position 5; .186" Thick
Thrust Washer Pc.	FP-A62573	STD	Position 5; 2 Required; .186" Thick
CYLINDER COMPONENTS			
PISTONS	PART NO.	SIZE	DESCRIPTION
Pin Bushing	FP-A27846		1.500" Pin Dia.
CONNECTING RODS &			
BRGS.	PART NO.	SIZE	DESCRIPTION
Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.
Rod Pair	FP-A43174	2	2.7490" Crank Pin Dia.
Rod Pair	FP-A43175	10	2.7490" Crank Pin Dia.
Rod Pair	FP-A43176	20	2.7490" Crank Pin Dia.
Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.
	MAIN BEARINGS (cont.) Main Set Main Set Thrust Washer Set Thrust Washer Pc.  CYLINDER COMPONENTS  PISTONS PIN Bushing  CONNECTING RODS & BRGS. Rod Pair Rod Pair Rod Pair Rod Pair Rod Pair Rod Pair	MAIN BEARINGS (cont.)         PART NO.           Main Set         FP-7040M20           Main Set         FP-5047M           Thrust Washer Set         FP-A62573S           Thrust Washer Pc.         FP-A62573           CYLINDER COMPONENTS           PISTONS         PART NO.           Pin Bushing         FP-A27846           CONNECTING RODS & BRGS.         PART NO.           Rod Pair         FP-A43173           Rod Pair         FP-A43174           Rod Pair         FP-A43175           Rod Pair         FP-A43175           Rod Pair         FP-A43176	MAIN BEARINGS (cont.)         PART NO.         SIZE           Main Set         FP-7040M20         Std-10-20           Main Set         FP-5047M         Std-10-20           Thrust Washer Set         FP-A62573S         STD           Thrust Washer Pc.         FP-A62573         STD           CYLINDER COMPONENTS           PISTONS         PART NO.         SIZE           Pin Bushing         FP-A27846         SIZE           CONNECTING RODS &         BRGS.         PART NO.         SIZE           Rod Pair         FP-A43173         STD           Rod Pair         FP-A43174         2           Rod Pair         FP-A43175         10           Rod Pair         FP-A43176         20

Wheel Tractor A377D, 377D Engs. (Diesel). Crawler Tractor A377D, 377D Engs. (Diesel). 6.2L 377 Diesel L6, 4" Bore

	0.2L 011 Die3ei L0, + Doie			
	CYL. HEAD & PARTS			
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
6	Guide	FP-A26294		Int.; .4050" ID, 4.3800" O.A.L.
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-A58628		O-Ring style
	ENGINE BLOCK & PARTS			
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-A23544	STD	W/2.250" dia. brgs.
	CRANKSHAFT/OIL PUMP			
QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99260		
1	Oil Seal	FP-A157044		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-A62050		
1	Redi-Sleeve	FP-99475		
QTY	MAIN BEARINGS	PART NO.	SIZE	
1	Main Set	FP-7040M		Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M10		Optional main set w/o thrust washer; 2.999" Crank Dia.
1 1	Main Set	FP-7040M20	Std-10-20	
1	Thrust Washer Set	FP-A62572S	STD	Position 5; .156" Thick
2	Thrust Washer Pc.	FP-A62572	STD	Position 5; 2 Required; .156" Thick
	CYLINDER COMPONENTS			
	PISTONS	PART NO.	SIZE	
6	Pin Bushing	FP-A27846		1.500" Pin Dia.
	CONNECTING RODS &			
	BRGS.	PART NO.	_	DESCRIPTION
6	Rod Pair	FP-A43173		2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43174	_	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43175		2.7490" Crank Pin Dia.
6	Rod Pair Rod Pair	FP-A43176 FP-A43177		2.7490" Crank Pin Dia. 2.7490" Crank Pin Dia.
О	nou raii	FF-A431//	30	2.7490 Crank All Dia.

51 Wheel Tractor A401B, A401BD, A401D, 401B, 401BD Engs. (Diesel). Crawler Tractor A401B, A401BD, A401D, 401B, 401BD Engs. (Diesel). Wheel Loader A401B, A401BD, A401D, 401B, 401BD Engs. (Diesel).

6.6L 401 Diesel L6, 4.125" Bore

	CYL. HEAD & PARTS			
QT	Y VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-A11801		A401D Engs.; Models W10, 930 & 940
6	Exhaust	FP-A11802		A401D Engs.; Models W10, 930 & 940
24	Keeper	FP-A27872		A401BD Engs. & A401D Engs.; Model 930



Wheel Tractor A401B, A401BD, A401D, 401B, 401BD Engs. (Diesel). Crawler Tractor 51 A401B, A401BD, A401D, 401B, 401BD Engs. (Diesel). Wheel Loader A401B, A401BD, (cont.)

A401D, 401B Engs. (Diesel).

6.6L 401 Diesel L6, 4.125" Bore

				0.0L +01 Die3ei L0, +.123 Doie
	CYL. HEAD & PARTS (cont.)			
OTV	VALVE GUIDE	PART NO.	CIZE	DESCRIPTION
6	Guide	FP-A11803	SIZE	Exh.; A401D Engs.; Model 930; .4050" ID, 3.2200" O.A.L.
_				
8	Guide	FP-A11803		Exh. & Int.; A401BD Engs.; .4050" ID, 3.2200" O.A.L.
6	Guide	FP-A26294		Int.; A401D Engs.; Model 930; .4050" ID, 4.3800" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12		FP-A66444	_	A401BD Engs.
12	Spring	FP-A21076		A401D Engs.; Model 930
			0.75	
	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-A58628		A401BD Engs.; O-Ring style
	<b>ENGINE BLOCK &amp; PARTS</b>			
OTV	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PGE401LC	OIZL	A401BD Engs.
¦	Complete Overhaul Gasket Set	PGE401LC +		A401BD Engs.; When depleted use FP-PGE401LC
¦				
1	Complete Overhaul Gasket Set	FP-PGE401DM		A401D Engs.; Exc. 940 Wheel Tractor & W10 Loader Tractor
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-A23544	STD	W/2.250" dia. brgs.
	CRANKSHAFT/OIL PUMP			
OTV	SEALS - FRONT CRANK	DADT NO	CIZE	DESCRIPTION
	Redi-Sleeve	PART NO.	SIZE	DESCRIF HUN
1	11000	FP-99260		
1	Oil Seal	FP-A157044		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-A62050		
1	Redi-Sleeve	FP-99475		
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-7040M		Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M10		Optional main set w/o thrust washer; 2.999" Crank Dia.
Ιi	Main Set	FP-7040M20		Optional main set w/o thrust washer; 2.999" Crank Dia.
Ιi	Main Set	FP-5047M		W/.186" thick thrust washer
Ιi	Thrust Washer Set	FP-A62572S		Position 5; .156" Thick
l¦	Thrust Washer Set	FP-A62573S		Position 5; .186" Thick
2	Thrust Washer Set Thrust Washer Pc.			Position 5; 2 Required; .156" Thick
2	Thrust Washer Pc. Thrust Washer Pc.	FP-A62572 FP-A62573		Position 5; 2 Required; .186" Thick
		FF-A02373	310	Fosition 5, 2 nequired, . 100 Trick
	CYLINDER COMPONENTS			
QTY	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/Sealing Rings	FP-A182186WS	STD	A401BD Engs.
6	Liner w/Sealing Rings	FP-A23658WS	STD	A401D Engs.
6	Cylinder Kit Complete	FP-A1481351	STD	A401BD Engs.
6	Cylinder Kit Complete	FP-A418211	STD	A401D Engs.; Contains cast-iron piston w/1.359" dia. pin
6	Cylinder Kit Complete	FP-A404791		A401D Engs.; Contains Alum. piston w/1.500" dia. pin
	PISTONS	PART NO.		DESCRIPTION
	1 1 2 1 2 1 2 1	_	_	
6	Piston Body w/o Pin	FP-2489N	510	OVERBORE To 4.250". A401D engines w/1.3586" Dia. pin.;
	Pioton Kit w/Pin & Potoinara	ED A65107WD	CTD	3-3/32, 1-1/4 Ring Groove; Flat Head
6	Piston Kit w/Pin & Retainers	FP-A65127WP	SID	A401BD Engs.; Cast; 2-3/32, 1-1/4 Ring Groove; Dish Head
_	Piston Kit w/Pin & Retainers	FP-A11101WP	OTD	.890" deep x 2.310" dia. w/2 valve reliefs
6				
1	FISION KIL W/FIN & Heldiners	FF-AIIIUIWF	310	A401D Engs.; w/1.3586" pin dia.; Cast; 3-3/32, 1-1/4 Ring
				Groove; Flat Head. Cast Iron
6	Piston Kit w/Pin & Retainers	FP-A24488WP		Groove; Flat Head. Cast Iron A401D Engs.; w/1.500" pin dia.; Cast; 3-3/32, 1-1/4 Ring Groove;
	Piston Kit w/Pin & Retainers	FP-A24488WP		Groove; Flat Head. Cast Iron A401D Engs.; w/1.500" pin dia.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head. Alum. w/Ni-Resist Insert
6	Piston Kit w/Pin & Retainers Pin Bushing			Groove; Flat Head. Cast Iron A401D Engs.; w/1.500" pin dia.; Cast; 3-3/32, 1-1/4 Ring Groove;
6	Piston Kit w/Pin & Retainers Pin Bushing CONNECTING RODS &	FP-A24488WP FP-A27846	STD	Groove; Flat Head. Cast Iron A401D Engs.; w/1.500" pin dia.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head. Alum. w/Ni-Resist Insert W/1.3596" pin dia.; 1.500" Pin Dia.
6 <b>QTY</b>	Piston Kit w/Pin & Retainers Pin Bushing CONNECTING RODS & BRGS.	FP-A24488WP FP-A27846 PART NO.	STD	Groove; Flat Head. Cast Iron A401D Engs.; w/1.500" pin dia.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head. Alum. w/Ni-Resist Insert W/1.3596" pin dia.; 1.500" Pin Dia.  DESCRIPTION
6 QTY 6	Piston Kit w/Pin & Retainers Pin Bushing CONNECTING RODS & BRGS. Rod Pair	FP-A24488WP FP-A27846 PART NO. FP-A43173	STD  SIZE STD	Groove; Flat Head. Cast Iron A401D Engs.; w/1.500" pin dia.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head. Alum. w/Ni-Resist Insert W/1.3596" pin dia.; 1.500" Pin Dia.  DESCRIPTION 2.7490" Crank Pin Dia.
6 QTY 6 6	Piston Kit w/Pin & Retainers Pin Bushing CONNECTING RODS & BRGS. Rod Pair Rod Pair	FP-A24488WP FP-A27846 PART NO. FP-A43173 FP-A43174	SIZE STD 2	Groove; Flat Head. Cast Iron A401D Engs.; w/1.500" pin dia.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head. Alum. w/Ni-Resist Insert W/1.3596" pin dia.; 1.500" Pin Dia.  DESCRIPTION 2.7490" Crank Pin Dia. 2.7490" Crank Pin Dia.
6 QTY 6 6 6 6	Piston Kit w/Pin & Retainers Pin Bushing  CONNECTING RODS & BRGS. Rod Pair Rod Pair Rod Pair Rod Pair	FP-A24488WP FP-A27846 PART NO. FP-A43173 FP-A43174 FP-A43175	SIZE STD 2 10	Groove; Flat Head. Cast Iron A401D Engs.; w/1.500" pin dia.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head. Alum. w/Ni-Resist Insert W/1.3596" pin dia.; 1.500" Pin Dia.  DESCRIPTION 2.7490" Crank Pin Dia. 2.7490" Crank Pin Dia. 2.7490" Crank Pin Dia.
6 QTY 6 6 6 6	Piston Kit w/Pin & Retainers Pin Bushing  CONNECTING RODS & BRGS. Rod Pair Rod Pair Rod Pair Rod Pair Rod Pair Rod Pair	FP-A24488WP FP-A27846 PART NO. FP-A43173 FP-A43174 FP-A43175 FP-A43176	SIZE STD 2 10 20	Groove; Flat Head. Cast Iron A401D Engs.; w/1.500" pin dia.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head. Alum. w/Ni-Resist Insert W/1.3596" pin dia.; 1.500" Pin Dia.  DESCRIPTION 2.7490" Crank Pin Dia.
6 QTY 6 6 6 6	Piston Kit w/Pin & Retainers Pin Bushing  CONNECTING RODS & BRGS. Rod Pair Rod Pair Rod Pair Rod Pair	FP-A24488WP FP-A27846 PART NO. FP-A43173 FP-A43174 FP-A43175	SIZE STD 2 10 20	Groove; Flat Head. Cast Iron A401D Engs.; w/1.500" pin dia.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head. Alum. w/Ni-Resist Insert W/1.3596" pin dia.; 1.500" Pin Dia.  DESCRIPTION 2.7490" Crank Pin Dia. 2.7490" Crank Pin Dia. 2.7490" Crank Pin Dia.
6 <b>QTY</b> 6 6 6 6 6	Piston Kit w/Pin & Retainers Pin Bushing CONNECTING RODS & BRGS. Rod Pair	FP-A24488WP FP-A27846 PART NO. FP-A43173 FP-A43174 FP-A43175 FP-A43176 FP-A43177	SIZE STD 2 10 20 30	Groove; Flat Head. Cast Iron A401D Engs.; w/1.500" pin dia.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head. Alum. w/Ni-Resist Insert W/1.3596" pin dia.; 1.500" Pin Dia.  DESCRIPTION 2.7490" Crank Pin Dia.
6 QTY 6 6 6 6 6 6 0	Piston Kit w/Pin & Retainers Pin Bushing  CONNECTING RODS & BRGS. Rod Pair	FP-A24488WP FP-A27846 PART NO. FP-A43173 FP-A43174 FP-A43175 FP-A43176 FP-A43177 PART NO.	STD  SIZE STD 2 10 20 30  SIZE	Groove; Flat Head. Cast Iron A401D Engs.; w/1.500" pin dia.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head. Alum. w/Ni-Resist Insert W/1.3596" pin dia.; 1.500" Pin Dia.  DESCRIPTION 2.7490" Crank Pin Dia. DESCRIPTION
6 QTY 6 6 6 6 6 6 QTY 6	Piston Kit w/Pin & Retainers Pin Bushing  CONNECTING RODS & BRGS. Rod Pair	FP-A24488WP FP-A27846 PART NO. FP-A43173 FP-A43174 FP-A43175 FP-A43176 FP-A43177 PART NO. FP-A41967	SIZE	Groove; Flat Head. Cast Iron A401D Engs.; w/1.500" pin dia.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head. Alum. w/Ni-Resist Insert W/1.3596" pin dia.; 1.500" Pin Dia.  DESCRIPTION 2.7490" Crank Pin Dia. DESCRIPTION 2-3/32, 1-1/4
6 QTY 6 6 6 6 6 0 QTY 6 3	Piston Kit w/Pin & Retainers Pin Bushing  CONNECTING RODS & BRGS. Rod Pair	FP-A24488WP FP-A27846  PART NO. FP-A43173 FP-A43175 FP-A43176 FP-A43177  PART NO. FP-A41967 FP-A41967	SIZE STD 2 10 20 30 SIZE STD STD	Groove; Flat Head. Cast Iron A401D Engs.; w/1.500" pin dia.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head. Alum. w/Ni-Resist Insert W/1.3596" pin dia.; 1.500" Pin Dia.  DESCRIPTION 2.7490" Crank Pin Dia. DESCRIPTION 2-3/32, 1-1/4; 2 Cyl Set
6 QTY 6 6 6 6 6 6 QTY 6	Piston Kit w/Pin & Retainers Pin Bushing  CONNECTING RODS & BRGS. Rod Pair	FP-A24488WP FP-A27846 PART NO. FP-A43173 FP-A43174 FP-A43175 FP-A43176 FP-A43177 PART NO. FP-A41967	SIZE STD 2 10 20 30 SIZE STD STD Std Only	Groove; Flat Head. Cast Iron A401D Engs.; w/1.500" pin dia.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head. Alum. w/Ni-Resist Insert W/1.3596" pin dia.; 1.500" Pin Dia.  DESCRIPTION 2.7490" Crank Pin Dia. DESCRIPTION 2-3/32, 1-1/4



51 Wheel Tractor A401B, A401BD, A401D, 401B, 401BD Engs. (Diesel). Crawler Tractor (cont.) A401B, A401BD, A401D, 401B, 401BD Engs. (Diesel). Wheel Loader A401B, A401BD, A401D, 401B, 401BD Engs. (Diesel).

6.6L 401 Diesel L6, 4.125" Bore

	KITS		
QT	OVERHAUL KIT	PART NO. SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-IFK401L	A-401BD Engs.; w/thrust washer set
1	In-Frame Overhaul Kit	FP-IFK401E	A-401D Engs.; w/thrust washer set .156" & .186" thick; Exc. Wheel Tractor Model 940 & Loader Tractor Model W10

52 Wheel Tractor 401BDT, 401DT Engs. (Turbo-Diesel). Crawler Tractor 401BDT, 401DT Engs. (Turbo-Diesel). Wheel Loader 401BDT, 401DT Engs. (Turbo-Diesel).

	6.6L 401 Turbo-Diesel L6, 4.125"		DD1, 4	orbr Engs. (Turbo-bieser).
	CYL. HEAD & PARTS			
<b>QTY</b> 24	VALVE Keeper	PART NO. FP-A27872	SIZE	DESCRIPTION
<b>QTY</b> 12	VALVE GUIDE Guide	PART NO. FP-A11803	SIZE	DESCRIPTION .4050" ID, 3.2200" O.A.L.
<b>QTY</b> 12	VALVE SPRING Spring	PART NO. FP-A66444	SIZE	DESCRIPTION
	VALVE SEAL Valve Stem Seal	PART NO. FP-A58628	SIZE	<b>DESCRIPTION</b> O-Ring style
	ENGINE BLOCK & PARTS			g,
<b>QTY</b> 1 1	GASKET SETS Complete Overhaul Gasket Set Complete Overhaul Gasket Set	PART NO. FP-PGE401LC PGE401LC +	SIZE	DESCRIPTION  When depleted use FP-PGE401LC
QTY 1	CAM BEARINGS Cam Set	PART NO. FP-A23544	_	DESCRIPTION W/2.250" dia. brgs.
	CRANKSHAFT/OIL PUMP			
<b>QTY</b> 1 1	SEALS - FRONT CRANK Redi-Sleeve Oil Seal	PART NO. FP-99260 FP-A157044	SIZE	DESCRIPTION
<b>QTY</b> 1 1	SEALS - REAR CRANK Oil Seal Redi-Sleeve	PART NO. FP-A62050 FP-99475	SIZE	DESCRIPTION
QTY 1 1 1 1 1 2 2	MAIN BEARINGS Main Set Main Set Main Set Main Set Thrust Washer Set Thrust Washer Set Thrust Washer Pc. Thrust Washer Pc.	PART NO. FP-7040M FP-7040M10 FP-7040M20 FP-5047M FP-A62572S FP-A62573S FP-A62572 FP-A62573	Std-10-20 Std-10-20 Std-10-20 Std-10-20 STD STD STD	DESCRIPTION Optional main set w/o thrust washer; 2.999" Crank Dia. Optional main set w/o thrust washer; 2.999" Crank Dia. Optional main set w/o thrust washer; 2.999" Crank Dia. Optional main set w/o thrust washer; 2.999" Crank Dia. W/.186" thick thrust washer Position 5; .156" Thick Position 5; .186" Thick Position 5; 2 Required; .156" Thick Position 5; 2 Required; .186" Thick
	CYLINDER COMPONENTS			
<b>QTY</b> 6 6	LINERS Liner w/Sealing Rings Cylinder Kit Complete	PART NO. FP-A182186WS FP-A1481351	SIZE STD STD	DESCRIPTION
<b>QTY</b> 6	PISTONS Piston Kit w/Pin & Retainers	PART NO. FP-A65127WP	_	DESCRIPTION Cast; 2-3/32, 1-1/4 Ring Groove; Dish Head .890" deep x 2.310" dia. w/2 valve reliefs
6	Pin Bushing	FP-A27846		W/1.3596" pin dia.; 1.500" Pin Dia.
6 6 6 6	CONNECTING RODS & BRGS. Rod Pair Rod Pair Rod Pair Rod Pair Rod Pair Rod Pair	PART NO. FP-A43173 FP-A43174 FP-A43175 FP-A43176 FP-A43177	STD 2 10 20 30	DESCRIPTION 2.7490" Crank Pin Dia.
<b>QTY</b> 6 3 6	PISTON RINGS Ring Set Single Cylinder Premium Set Premium Single Cylinder Set	PART NO. FP-A41967 FP-A41967S W-10138KX Std O	STD STD	<b>DESCRIPTION</b> 2-3/32, 1-1/4 2-3/32, 1-1/4; 2 Cyl Set 2-3/32, 1-1/4 (2 cyl. set)



Wheel Tractor 401BDT, 401DT Engs. (Turbo-Diesel). Crawler Tractor 401BDT, 401DT 52
Engs. (Turbo-Diesel). Wheel Loader 401BDT, 401DT Engs. (Turbo-Diesel). (cont.)

	Eligs. (Tu	rbo-Diesei). wiiee	Load	6.6L 401 Turbo-Diesel L6, 4.125" Bore			
	KITS						
<b>QTY</b> 1	OVERHAUL KIT In-Frame Overhaul Kit	<i>PART NO.</i> FP-IFK401L	SIZE	<b>DESCRIPTION</b> W/Thrust washer set			
	Grader QSB 6.7 Engines. Wheel Tractor QSB 6.7 Engines. 53 6.7L 408 (6691cc) OHV Turbo-Diesel L6 (24 Valve), 107mm Bore (Cummins Eng.)						
	CYL. HEAD & PARTS	,					
	GASKETS	PART NO.	SIZE	DESCRIPTION			
1 OTV	Head Set HEAD BOLTS	FP-4955354 *	CIZE	Upper Set  DESCRIPTION			
26	Head Bolt	PART NO. FP-3927063	SIZE	M12 x 1.75 x 131MM Length			
<b>QTY</b> 12	VALVE Intake	<i>PART NO.</i> FP-3940735	SIZE	DESCRIPTION Chrome plated stem; 1.2990" Head Dia., .2756" Stem Dia.,			
12	Intake Valve Kit	FP-3802924		4.9070" O.A.L. Incl. valve & keepers; 1.2990" Head Dia., .2756" Stem Dia., 4.9070" O.A.L.			
48	Keeper	FP-3940123		Exh. & Int.			
<b>QTY</b> 24 24	VALVE SPRING Spring Spring Cap	PART NO. FP-4936080 FP-3943198	SIZE	DESCRIPTION Exh. & Int.; 1.8800" Free Height Exh. & Int.			
	VALVE SEAL	PART NO.	SIZE	DESCRIPTION			
12	Valve Stem Seal	FP-3955394		Exh.; Green Viton Center; Top Hat style			
12 <b>QTY</b>	Valve Stem Seal  ROCKER PARTS	FP-3955393 PART NO.	SIZE	Int.; Yellow Viton Center; Top Hat style  DESCRIPTION			
24	Adjusting Screw Nut	FP-3927692	OILL	Rocker lever nut; 3/8" - 24 UNF			
	CAMSHAFT GROUP						
<b>QTY</b> 24	CAMSHAFT/LIFTER Lifter	<i>PART NO.</i> FP-3947759	SIZE	DESCRIPTION Exh. & Int.			
	FUEL SYSTEM & PARTS						
QTY 1	FUEL FILTERS & PUMP Cover Plate Gasket	<i>PART NO.</i> FP-3939258	SIZE	<b>DESCRIPTION</b> Fuel Transfer Pump Mounting			
QTY 1	TURBOCHARGER O-Ring	PART NO. FP-3678786	SIZE	DESCRIPTION Turbocharger flexible hose			
1	O-Ring	FP-3922794		Turbocharger flexible hose			
	COOLING SYSTEM						
	WATER PUMP	PART NO.	SIZE	DESCRIPTION What a second of the Bridge Brid			
1	Water Pump Seal Ring Water Pump Seal Ring	FP-3906698 FP-3906697		Water pump mounting; Rectangular Ring Water Inlet; Rectangular Ring			
1	Ball Brg.	FP-3910739		Fan Pulley			
	ENGINE BLOCK & PARTS						
QTY 1	GASKETS Oil Pan Gasket	<i>PART NO.</i> FP-3958165	SIZE	<b>DESCRIPTION</b> w/Stamped steel pan, drain on bottom			
QTY 1	GASKET SETS Gasket Conversion Set	<i>PART NO.</i> FP-4955355 *	SIZE	DESCRIPTION Lower Set			
QTY 1	CAM BEARINGS Cam Brg.	<i>PART NO.</i> FP-3940059	<b>SIZE</b> STD	DESCRIPTION			
	FREEZE PLUGS	PART NO.	SIZE	DESCRIPTION  Rehind resolved assert 4 00    Disc			
3	Expansion Plug  CRANKSHAFT/OIL PUMP	FP-3007635		Behind pushrod cover; 1.00" Dia.			
OTV	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION			
1	Oil Seal	FP-3937111	J.2L	Front; Engine Timing Cover			
1	Oil Seal Kit Redi-Sleeve	FP-3802820 FP-3906080		Front; Incl. wear sleeve Front			
	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION			
1	Oil Seal Kit Oil Seal Kit	FP-3926126 FP-4089342 +		Rear; Single Lip; Dry Clutch; Incl. Wear Sleeve Rear; When depleted use FP-3934486			
	OIL PUMP	PART NO.	SIZE				
1	O-Ring	FP-3946689 FP-3679139		Access Hole Cover Seal			
	1 O-Ring FP-3679139 Cyl. Block; For use w/3089568 threaded plug						



**53** Grader QSB 6.7 Engines. Wheel Tractor QSB 6.7 Engines.

(cont.) 6.7L 408 (6691cc) OHV Turbo-Diesel L6 (24 Valve), 107mm Bore (Cummins Eng.)

#### CRANKSHAFT/OIL PUMP (cont.) QTY OIL PUMP (cont.) PART NO. SIZE DESCRIPTION Cyl. Block; For use w/3678791 threaded plug O-Ring FP-3678786 O-Ring FP-3678925 Cyl. Block; For use w/3678924 threaded plug; M10 x 1.00 1 O-Ring FP-3946188 Oil Dipstick Tube 1 O-Ring FP-3929457 Oil Filter Head; For use w/3946947 threaded plug CYLINDER COMPONENTS QTY PISTONS PART NO. SIZE DESCRIPTION Piston Cooling Nozzle FP-4937308 \* Pin Bushing FP-4891178 CONNECTING RODS & QTY BRGS. PART NO. SIZE DESCRIPTION Rod Bearing Half Lower For fracture split rods; .25MM FP-4892795 6 Rod Bearing Half Lower FP-4892796 For fracture split rods; .50MM FP-4892797 For fracture split rods; .75MM Rod Bearing Half Lower 6 Rod Bearing Half Lower FP-4893693 For fracture split rods; STD 6 Rod Bearing Half Lower FP-4892798 For fracture split rods; 1.00MM 6 6 Rod Bearing Half Upper FP-4932375 For fracture split rods; .25MM For fracture split rods; .50MM Rod Bearing Half Upper 6 FP-4932376 FP-4932377 For fracture split rods; .75MM 6 Rod Bearing Half Upper Rod Bearing Half Upper FP-3969562 For fracture split rods; STD For fracture split rods; 1.00MM Rod Bearing Half Upper FP-4932378 6

Wheel Tractor A451, A451B, A451BD, A451D, 451, 451B, 451BD, 6-451B, 6-451D,
 6-451BD Engs. (Diesel). Crawler Tractor A451, A451B, A451BD, A451D, 451, 451B,
 451BD, 6-451B, 6-451D, 6-451BD.

7.4L 451 Diesel L6. 4.375" Bore

	7.4L 451 Diesei L6, 4.375 Bore			
	CYL. HEAD & PARTS			
<b>QTY</b> 6 6 24	VALVE Intake Exhaust Keeper	PART NO. FP-A58869 FP-A58870 FP-A27872	SIZE	<b>DESCRIPTION</b> A451BD, 6-451BD Engs.; 1.7500" Head Dia., 6.4300" O.A.L. A451BD, 6-451BD Engs.; 1.5600" Head Dia., 6.4300" O.A.L.
<b>QTY</b> 6 12	VALVE GUIDE Guide Guide Guide	PART NO. FP-A11803 FP-A11803 FP-A26294	SIZE	DESCRIPTION  Exh.; A451D, 6-451D Engs.; .4050" ID, 3.2200" O.A.L.  Exh. & Int.; A451BD, 6-451B, 6-451BD Engs.; .4050" ID, 3.2200"  O.A.L.  Int.; A451D, 6-451D Engs.; .4050" ID, 4.3800" O.A.L.
<b>QTY</b> 12 12	VALVE SPRING Spring Spring	PART NO. FP-A66444 FP-A21076		<b>DESCRIPTION</b> A451B, A451BD, 6-451B, 6-451BD Engs.; Model 1070 A451D, 6-451D Engs.
<b>QTY</b> 6	VALVE MISC. Rotocap	PART NO. FP-A66336	SIZE	<b>DESCRIPTION</b> A451D Eng. Model 1030; 6-451D & A451BD Eng. Model 1070 only; 6-451BD
<b>QTY</b> 12	VALVE SEAL Valve Stem Seal	PART NO. FP-A58628	SIZE	<b>DESCRIPTION</b> O-Ring style
	ENGINE BLOCK & PARTS			
<b>QTY</b> 1 1	GASKET SETS Complete Overhaul Gasket Set Complete Overhaul Gasket Set	PART NO. FP-PGE451LC FP-PGE451EC	SIZE	<b>DESCRIPTION</b> A451BD, 6-451BD Engs. A451D, 6-451D Engs.
QTY 1	CAM BEARINGS Cam Set	PART NO. FP-A23544		<b>DESCRIPTION</b> W/2.250" dia. brgs.
	CRANKSHAFT/OIL PUMP			
<b>QTY</b> 1 1	SEALS - FRONT CRANK Redi-Sleeve Oil Seal	PART NO. FP-99260 FP-A157044	SIZE	DESCRIPTION
<b>QTY</b> 1 1	SEALS - REAR CRANK Oil Seal Redi-Sleeve	PART NO. FP-A62050 FP-99475	SIZE	DESCRIPTION
QTY 1 1 1 1	MAIN BEARINGS Main Set	PART NO. FP-7040M FP-7040M10 FP-7040M20 FP-5045M FP-5045M10	Std-10-20 Std-10-20 Std-10-20 Std-10-20	



Wheel Tractor A451, A451B, A451BD, A451D, 451, 451B, 451BD, 6-451B, 6-451D, 54 6-451BD Engs. (Diesel). Crawler Tractor A451, A451B, A451BD, A451D, 451, 451B, (cont.) 451BD, 6-451B, 6-451D, 6-451BD.

7.4L 451 Diesel L6, 4.375" Bore

				7.12 101 Blood 20, 11070 Boto
	CRANKSHAFT/OIL PUMP (cont.)			
YTC	MAIN BEARINGS (cont.)	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-5045M20		W/.156" thick thrust washer
1	Main Set	FP-5047M		W/.186" thick thrust washer
1	Main Set	FP-5047M10		W/.186" thick thrust washer
1	Main Set	FP-5047M20		W/.186" thick thrust washer
1	Thrust Washer Set	FP-A62572S	STD	Position 5; .156" Thick
1	Thrust Washer Set	FP-A62573S	STD	Position 5; .186" Thick
2	Thrust Washer Pc.	FP-A62572	STD	Position 5; .156" Thick
2	Thrust Washer Pc.	FP-A62573		Position 5; .186" thick; .186" Thick
	CYLINDER COMPONENTS	TT AGEOTO	015	Tooldon o, . roo thick, . roo Thick
	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Rings	FP-A148203		A451B, A451BD, 6-451B, 6-451BD Engs.; Flange dia. 5.173"
6	Liner w/o Sealing Rings	FP-A23660		A451D, 6-451D Engs.; Flange Dia. 5.127"
6	Liner w/Sealing Rings	FP-A148203WS	STD	A451B, A451BD, 6-451B, 6-451BD Engs.; Incl. (2) sealing ring
_	Lineary (One linear Director	ED 400000W0	OTD	Flange dia. 5.173"
6	Liner w/Sealing Rings	FP-A23660WS		A451D, 6-451D Engs.; Flange Dia. 5.127"
6	Cylinder Kit Complete	FP-A460221	STD	A451B, A451BD, 6-451B, 6-451BD Engs.; Liner Flange Dia.
				5.173"
6	Cylinder Kit Complete	FP-A429951	STD	A451D, 6-451D Engs.; Liner Flange Dia. 5.127"
12	Sealing Ring, Liner	FP-2385246		Use 2 per liner
	PISTONS	PART NO.	CITE	DESCRIPTION
			SIZE	
6	Piston Body w/o Pin	FP-A64766		A451B, A451BD, 6-451B, 6-451BD Engs.; Cast; 2-3/32, 1-1/4
				Ring Groove; Dish Head .908" deep x 2.450" dia. w/2 valve
				reliefs
6	Piston Body w/o Pin	FP-A57139		A451D, 6-451D Engs.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat Head
_	Dieter Kitus/Die 8 Deteinere	ED AC4700MD	CTD	
6	Piston Kit w/Pin & Retainers	FP-A64766WP	510	A451B, A451BD, 6-451B, 6-451BD Engs.; Cast; 2-3/32, 1-1/4
				Ring Groove; Dish Head .908" deep x 2.450" dia. w/2 valve
				reliefs
6	Piston Kit w/Pin & Retainers	FP-A57139WP	STD	A451D, 6-451D Engs.; Cast; 3-3/32, 1-1/4 Ring Groove; Flat
				Head
6	Pin	FP-A64767		1.501" Dia.
12	Piston Pin Retainer	FP-A21016		Use w/FP-A57139 piston
	Piston Pin Retainer			
12		FP-10021150		Use w/FP-A64766 piston
6	Pin Bushing	FP-A27846		1.500" Pin Dia.
	CONNECTING RODS &			
TΥ	BRGS.	PART NO.	SIZE	DESCRIPTION
6	Rod Pair	FP-A43173		2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43174		2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43175		2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43176		2.7490" Crank Pin Dia.
6	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.
6	Rod Pair	FP-A4317340	40	2.7490" Crank Pin Dia.
	PISTON RINGS	PART NO.		DESCRIPTION
TV		FART NO.		
		ED 440000		A451D, 6-451D Engs.; 3-3/32, 1-1/4
6	Ring Set Single Cylinder	FP-A42996		
6	Ring Set Single Cylinder Ring Set Single Cylinder	FP-A43028	STD	Exc. A451D, 6-451D Engs.; 2-3/32, 1-1/4; 1 cyl. set
6	Ring Set Single Cylinder		STD	
6	Ring Set Single Cylinder Ring Set Single Cylinder Premium Set	FP-A43028	STD	Exc. A451D, 6-451D Engs.; 2-3/32, 1-1/4; 1 cyl. set
6 6 3	Ring Set Single Cylinder Ring Set Single Cylinder Premium Set  KITS	FP-A43028 FP-A43028S	STD STD	Exc. A451D, 6-451D Engs.; 2-3/32, 1-1/4; 1 cyl. set Exc. A451D, 6-451D Engs.; 2-3/32, 1-1/4 (2 cyl. set)
6 6 3	Ring Set Single Cylinder Ring Set Single Cylinder Premium Set  KITS  OVERHAUL KIT	FP-A43028 FP-A43028S	STD	Exc. A451D, 6-451D Engs.; 2-3/32, 1-1/4; 1 cyl. set Exc. A451D, 6-451D Engs.; 2-3/32, 1-1/4 (2 cyl. set)  DESCRIPTION
6 6 3	Ring Set Single Cylinder Ring Set Single Cylinder Premium Set  KITS	FP-A43028 FP-A43028S	STD STD	Exc. A451D, 6-451D Engs.; 2-3/32, 1-1/4; 1 cyl. set Exc. A451D, 6-451D Engs.; 2-3/32, 1-1/4 (2 cyl. set)  DESCRIPTION  A-451BD, 6-451BD Engs.; From Ser. No. 2323001; w/thrust
6 6 3	Ring Set Single Cylinder Ring Set Single Cylinder Premium Set  KITS  OVERHAUL KIT	FP-A43028 FP-A43028S	STD STD	Exc. A451D, 6-451D Engs.; 2-3/32, 1-1/4; 1 cyl. set Exc. A451D, 6-451D Engs.; 2-3/32, 1-1/4 (2 cyl. set)  DESCRIPTION
6 6 3 <b>TY</b>	Ring Set Single Cylinder Ring Set Single Cylinder Premium Set  KITS  OVERHAUL KIT	FP-A43028 FP-A43028S	STD STD	Exc. A451D, 6-451D Engs.; 2-3/32, 1-1/4; 1 cyl. set Exc. A451D, 6-451D Engs.; 2-3/32, 1-1/4 (2 cyl. set)  DESCRIPTION  A-451BD, 6-451BD Engs.; From Ser. No. 2323001; w/thrust

7.4L 451 Turbo-Diesel L6, 4.375" Bore

	CYL. HEAD & PARTS			
QTY	VALVE	PART NO.	SIZE	DESCRIPTION
6	Intake	FP-A58869		Models 1170 & 1175; Model 1270 To Ser. No. 8736001; All 6-451BDT; 1.7500" Head Dia., 6.4300" O.A.L.
6	Exhaust	FP-A58870		Models 1170 & 1175; Model 1270 To Ser. No. 8736001; All 6-451BDT; 1.5600" Head Dia., 6.4300" O.A.L.
24	Keeper	FP-A27872		



<b>5</b> .	<b>55</b> Wheel Tractor <b>A451T</b> , <b>451BT</b> , <b>451BDT</b> , <b>451DT</b> , <b>6-451BDT</b> Engs. (Turbo-Diesel) (cont.) 7.4L 451 Turbo-Diesel L6, 4.375" Bore							
	CYL. HEAD & PARTS (cont.)							
<b>QTY</b> 12	VALVE GUIDE Guide	PART NO. FP-A11803	SIZE	<b>DESCRIPTION</b> Exh. & Int.; .4050" ID, 3.2200" O.A.L.				
<b>QTY</b> 12	VALVE SPRING Spring	PART NO. FP-A66444	SIZE	DESCRIPTION Model 1175, Model 1270; To Ser. No. 8736001				
6	VALVE MISC. Rotocap	PART NO. FP-A66336	SIZE	<b>DESCRIPTION</b> Exh.; To Ser. No. 8736001				
<b>QTY</b> 12	VALVE SEAL Valve Stem Seal	PART NO. FP-A58628	SIZE	O-Ring style				
	ENGINE BLOCK & PARTS							
QTY 1	GASKET SETS Complete Overhaul Gasket Set	PART NO. FP-PGE451LC	SIZE	<b>DESCRIPTION</b> 451BDT, 6-451BDT Engs.				
QTY 1	CAM BEARINGS Cam Set	PART NO. FP-A23544		<b>DESCRIPTION</b> W/2.250" dia. brgs.				
	CRANKSHAFT/OIL PUMP							
<b>QTY</b> 1 1	SEALS - FRONT CRANK Redi-Sleeve Oil Seal	PART NO. FP-99260 FP-A157044	SIZE	DESCRIPTION				
<b>QTY</b> 1 1	SEALS - REAR CRANK Oil Seal Redi-Sleeve	PART NO. FP-A62050 FP-99475	SIZE	DESCRIPTION				
1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 QTY 6 6 6 6 12 QTY 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	MAIN BEARINGS  Main Set  Thrust Washer Set  Thrust Washer Set  Thrust Washer Pc.  Thrust Washer Pc.  Thrust Washer Pc.  CYLINDER COMPONENTS  LINERS  Liner w/o Sealing Rings  Liner w/Sealing Rings  Cylinder Kit Complete  Sealing Ring, Liner  PISTONS  Piston Body w/o Pin  Piston Kit w/Pin & Retainers  Pin	PART NO. FP-7040M FP-7040M10 FP-7040M20 FP-5045M FP-5045M10 FP-5047M10 FP-5047M10 FP-5047M20 FP-A62572S FP-A62573S FP-A62573 FP-A148203 FP-A148203 FP-A148203WS FP-A1514081 FP-2385246 PART NO. FP-A65040 FP-A65040WP FP-A140607	Std-10-20 Std-10-20 Std-10-20 Std-10-20 Std-10-20 Std-10-20 Std-10-20 Std-10-20 Std-10-20 Std-10-20 STD STD STD STD STD STD	DESCRIPTION Optional main set w/o thrust washer; 2.999" Crank Dia. Optional main set w/o thrust washer; 2.999" Crank Dia. Optional main set w/o thrust washer; 2.999" Crank Dia. W/.156" thick thrust washer W/.156" thick thrust washer W/.186" Thick thrust washer Position 5; .156" Thick Position 5; .156" Thick Position 5; .156" Thick Position 5; .156" Thick Position 5; .186" Thick  DESCRIPTION Flange dia. 5.173" Incl. (2) sealing rings; Flange dia. 5.173" Liner Flange dia. 5.173" Use 2 per liner  DESCRIPTION 3-Ring; 1.625" pin dia. 3-Ring; 1.625" pin dia. 1.625" pin dia.				
12	Piston Pin Retainer  CONNECTING RODS &	FP-10021162						
<b>QTY</b> 6 6 6 6 6	BRGS. Rod Pair	PART NO. FP-A43173 FP-A43174 FP-A43175 FP-A43176 FP-A43177 FP-A4317340	STD 2 10 20 30	DESCRIPTION 2.7490" Crank Pin Dia.				
<b>QTY</b> 6	PISTON RINGS Ring Set Single Cylinder	PART NO. FP-A166285	<b>SIZE</b> STD	DESCRIPTION				
	KITS							
QTY 1	OVERHAUL KIT Complete Overhaul Kit	PART NO. FP-IFK451L	SIZE	<b>DESCRIPTION</b> w/thrust washer .156" & .186" thick; Gasket Set not included for 451BT Eng.				



Wheel Tractor A504BD, 504, 504B, 504BD, 6-504BD Engs. (Diesel). Crawler Tractor A504BD, 504, 504B, 504BD Engs. (Diesel). Wheel Loader A504BD, 504, 504B, 504BD, 6-504BD Engs. (Diesel). Excavator A504BD, 504, 504B, 504BD, 6-504BD Engs. (Diesel). Concrete Placer A504BD, 504, 504B, 504BD, 6-504BD Engs. (Diesel).

8.3L 504 Diesel L6, 4.625" Bore

				8.3L 504 Diesel L6, 4.625" Bore
	CYL. HEAD & PARTS			
		DADTNO	0175	DECODIDATION
6	VALVE Intake	PART NO. FP-A58626	SIZE	DESCRIPTION Early style; 45 deg. seat; Chrome plated stem; Replaces O.E. Nos. A41754 & A58626
6	Intake	FP-A182172		Late style; 30 deg. seat; Chrome plated stem; Replaces O.E. Nos. A44575, A66193 & A182172
6	Exhaust	FP-A182173		Chrome plated stem; 1.7500" Head Dia., .4015" Stem Dia., 6.4280" O.A.L.
6	Exhaust	FP-V2422X		Optional stellite face; Chrome plated stem; Replaces O.E. No. A150225; 1.7500" Head Dia., .4015" Stem Dia., 6.4300" O.A.L.
24	Keeper	FP-A27872		
QTY	VALVE GUIDE	PART NO.	SIZE	
12	Guide	FP-A11803		.4050" ID, 3.2200" O.A.L.
12	Guide	FP-A41783		Flanged
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-A66444		
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-A66336		Exh.
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-A58628	<del>-</del>	O-Ring style
	ENGINE BLOCK & PARTS			
	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PGE504LC	SIZE	From Ser. No. 2539001; May be used before Ser. No. 2539001 if
	Complete Overhauf Gasket Get	11 1 0200420		Cntr. Bores are re-worked & 5.19" Dia. firewall sleeves are used.
1	Complete Overhaul Gasket Set	FP-PGE504EC		To Ser. No. 2539000
OTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-A23544		W/2.250" dia. brgs.
	CRANKSHAFT/OIL PUMP			
OTV	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99260	OIZL	DESCRIPTION
l i	Oil Seal	FP-A157044		
OTV	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-A62050	SIZE	DESCRIPTION
i	Redi-Sleeve	FP-99475		
OTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-5049M	_	Incl. thrust washer; 3.499" Crank Dia.
l i	Main Set	FP-5049M10		Incl. thrust washer; 3.499" Crank Dia.
1	Main Set	FP-5049M20		Incl. thrust washer; 3.499" Crank Dia.
1	Main Set	FP-7040M		Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M10	Std-10-20	Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M20		Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Thrust Washer Set	FP-A62572S	STD	.156" Thick
1	Thrust Washer Set	FP-A62573S	STD	.186" Thick
2	Thrust Washer Pc. Thrust Washer Pc.	FP-A62572		.156" Thick .186" Thick
2		FP-A62573	STD	.180 THICK
	CYLINDER COMPONENTS			
	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Rings	FP-A153638		From Ser. No. 2539001. For blocks w/5.427" counterbore dia.; Sleeve has 5.19" dia. firewall; May be used before Ser. No.
_	Linerwie Coeling Dinns	ED 4400405		2539001 if the counterbores are reworked.
6	Liner w/o Sealing Rings	FP-A182185		To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores;
				Sleeve has 5.09" dia. firewall; Counterbores may be reworked to use FP-A153638WS sleeve with 3 sealing rings and 5.19"
				dia. firewall.
6	Liner w/Sealing Rings	FP-A153638WS	s stn	From Ser. No. 2539001. For blocks w/5.427" counterbore dia.;
			- 0.0	Sleeve has 5.19" dia. firewall & (3) FP-2387248 sealing rings;
				May be used before Ser. No. 2539001 if the counterbores are
				reworked.
6	Liner w/Sealing Rings	FP-A182185WS	S STD	To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores;
				Sleeve has 5.09" dia. firewall & (2) FP-2387157 sealing rings;
				Counterbores may be reworked to use FP-A153638WS sleeve with 3 sealing rings and 5.19" dia. firewall.
				with 5 sealing fings and 5.19 ula. lifewall.



Wheel Tractor A504BD, 504, 504B, 504BD, 6-504BD Engs. (Diesel). Crawler Tractor
 (cont.) A504BD, 504, 504B, 504BD, 6-504BD Engs. (Diesel). Wheel Loader A504BD, 504, 504B, 504BD, 6-504BD Engs. (Diesel). Excavator A504BD, 504, 504B, 504BD, 6-504BD Engs. (Diesel). Concrete Placer A504BD, 504, 504B, 504BD, 6-504BD Engs. (Diesel).
 8.3L 504 Diesel L6, 4.625" Bore

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	CYLINDER COMPONENTS (cont.)						
QTY	LINERS (cont.)	PART NO.	SIZE	DESCRIPTION			
6	Cylinder Kit Complete	FP-A166134	-	From Ser. No. 2539001; w/1.625" dia. piston pins; Contains FP-A153638 sleeve and FP-A166122 piston			
6	Cylinder Kit Complete	FP-CK51233638	STD	From Ser. No. 2539001; w/1.800" dia. piston pins; Contains FP-A153638WS sleeve and FP-A65123WP piston			
6	Cylinder Kit Complete	FP-CK61222185		To Ser. No. 2539000; 1.625" pin dia.; Contains FPA182185 Sleeve & FPA166122 piston; To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores; Sleeve has 5.09" dia. firewall & (2) FP-2387157 sealing rings; Counterbores may be reworked to use FP-A153638WS sleeve with 3 sealing rings and 5.19" dia.			
6	Cylinder Kit Complete	FP-A460251		firewall; Contains FP-A182185 sleeve and FP-A166122 piston To Ser. No. 2539000; 1.800" pin dia.; To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores; Sleeve has 5.09" dia. firewall & (2) FP-2387157 sealing rings; Counterbores may be reworked to use FP-A153638WS sleeve with 3 sealing rings and 5.19" dia. firewall; Contains FP-A182185 sleeve and FP-A65123 piston			
18	Sealing Ring, Liner	FP-2387248		Use w/FP-A153638 Liner			
12	Sealing Ring, Liner	FP-2387157		Use w/FP-A182185 Liner			
	PISTONS	PART NO.	CITE	DESCRIPTION			
	Piston Body w/o Pin	_	SIZE	From Ser. No. 2539001; Use w/1.625" dia. piston pins			
6	Piston Body w/o Pin	FP-A166122 FP-A65123		From Ser. No. 2539001; Use w/1.800" dia. piston pins			
6	Piston Kit w/Pin & Retainers	FP-A166122WP	STD	From Ser. No. 2539001; w/1.625" dia. piston pins; Cast; 2-3/32,			
0	PISTOTI KIT W/PIII & Hetainers	FP-A100122WP	310	1-3/16 Ring Groove; Dish Head .812" deep x 2.680" dia. w/2 valve reliefs; 16.1:1 C.R.			
6	Piston Kit w/Pin & Retainers	FP-A65123WP	STD	From Ser. No. 2539001; w/1.800" dia. piston pins; 1-1/8, 1-3/32, 1-1/4 Ring Groove; Dish Head .865" deep x 2.680" dia. w/2 valve reliefs			
6	Pin	FP-A140607		Use w/FP-A166122 piston			
6	Pin	FP-A58584		Use w/FP-A65123 piston; 1.800" Dia.			
12	Piston Pin Retainer	FP-10021162		Use w/FP-A166122 piston			
12	Piston Pin Retainer	FP-10021181		Use w/FP-A65123 piston			
6	Pin Bushing	FP-A58580		W/1.800" pin dia.			
	CONNECTING RODS &			•			
	BRGS.	PART NO.	SIZE	DESCRIPTION			
6	Rod Pair	FP-A43173		2.7490" Crank Pin Dia.			
6	Rod Pair	FP-A43174		2.7490" Crank Pin Dia.			
6	Rod Pair	FP-A43175		2.7490" Crank Pin Dia.			
6	Rod Pair	FP-A43176		2.7490" Crank Pin Dia.			
6	Rod Pair	FP-A43177	30	2.7490" Crank Pin Dia.			
6	Rod Pair	FP-A4317340	40	2.7490" Crank Pin Dia.			
6	Rod Pair	FP-A41758	STD	2.9990" Crank Pin Dia.			
6	Rod Pair	FP-A41900	10	2.9990" Crank Pin Dia.			
6	Rod Pair	FP-A41901	20	2.9990" Crank Pin Dia.			
6	Rod Pair	FP-A41902	30	2.9990" Crank Pin Dia.			
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION			
6	Ring Set Single Cylinder	FP-A42988		Check piston grooving before supplying ring set; 1-1/8, 1-3/32,			
				1-1/4; 2 cyl. set; Use w/piston FP-A65123			
6	Ring Set Single Cylinder	FP-A48320	STD	2 cyl. set; Use w/piston FP-A166122			
3	Premium Set	FP-A42988S	STD	Check piston grooving before supplying ring set; 1-1/8, 1-3/32, 1-1/4; 2 cyl. set; Use w/piston FP-A65123			
3	Premium Set	FP-A48320S	STD				
	KITS						
QTY	OVERHAUL KIT	PART NO.	SIZE				
1	Complete Overhaul Kit	FP-IFK504L		From Ser. No. 2539001			
1	Complete Overhaul Kit	FP-IFK504E		To Ser. No. 2539000			



Combine A504BDT, 504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Wheel Tractor A504BDT, 504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Crawler Tractor A504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Wheel Loader A504BDT, 504BDTI, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Excavator A504BDT, 504BDTI, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Concrete Placer A504BDT, 504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel).

8.3L 504 Turbo-Diesel L6. 4.625" Bore

				8.3L 504 Turbo-Diesei L6, 4.625" Bore
	CYL. HEAD & PARTS			
OTV	VALVE	PART NO.	CIZE	DESCRIPTION
6	Intake	FP-A58626	SIZE	Early style; 45 deg. seat; Chrome plated stem; Replaces O.E. Nos. A41754 & A58626
6	Intake	FP-A182172		Late style; 30 deg. seat; Chrome plated stem; Replaces O.E. Nos. A44575, A66193 & A182172
6	Exhaust	FP-A182173		Chrome plated stem; 1.7500" Head Dia., .4015" Stem Dia., 6.4280" O.A.L.
6	Exhaust	FP-V2422X		Optional stellite face; Chrome plated stem; Replaces O.E. No. A150225; 1.7500" Head Dia., .4015" Stem Dia., 6.4300" O.A.L.
24	Keeper	FP-A27872		
	VALVE GUIDE	PART NO.	SIZE	
12	Guide	FP-A11803		.4050" ID, 3.2200" O.A.L.
12	Guide	FP-A41783		Flanged
<b>QTY</b> 12	VALVE SPRING Spring	<i>PART NO.</i> FP-A66444	SIZE	DESCRIPTION
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
6	Rotocap	FP-A66336		Exh.
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
12	Valve Stem Seal	FP-A58628		O-Ring style
	ENGINE BLOCK & PARTS			
QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION
1	Complete Overhaul Gasket Set	FP-PGE504LC	0	From Ser. No. 2539001; May be used before Ser. No. 2539001 if
	Complete Gremaal adentification			Cntr. Bores are re-worked & 5.19" Dia. firewall sleeves are used.
1	Complete Overhaul Gasket Set	FP-PGE504EC		To Ser. No. 2539000
QTY	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Cam Set	FP-A23544		W/2.250" dia. brgs.
	CRANKSHAFT/OIL PUMP			
QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Redi-Sleeve	FP-99260		
1	Oil Seal	FP-A157044		
QTY	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-A62050		
1	Redi-Sleeve	FP-99475		
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION
1	Main Set	FP-5049M	Std-10-20-30	Incl. thrust washer; 3.499" Crank Dia.
1	Main Set	FP-5049M10	Std-10-20-30	Incl. thrust washer; 3.499" Crank Dia.
1	Main Set	FP-5049M20		Incl. thrust washer; 3.499" Crank Dia.
1	Main Set	FP-7040M		Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M10		Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Main Set	FP-7040M20		Optional main set w/o thrust washer; 2.999" Crank Dia.
1	Thrust Washer Set	FP-A62572S		.156" Thick
1	Thrust Washer Set	FP-A62573S		.186" Thick
2	Thrust Washer Pc.	FP-A62572		.156" Thick
2	Thrust Washer Pc.	FP-A62573	SID	.186" Thick
	CYLINDER COMPONENTS			
	LINERS	PART NO.	SIZE	DESCRIPTION
6	Liner w/o Sealing Rings	FP-A153638		From Ser. No. 2539001. For blocks w/5.427" counterbore dia.; Sleeve has 5.19" dia. firewall; May be used before Ser. No. 2539001 if the counterbores are reworked.
6	Liner w/o Sealing Rings	FP-A182185		To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores; Sleeve has 5.09" dia. firewall; Counterbores may be reworked to use FP-A153638WS sleeve with 3 sealing rings and 5.19" dia. firewall.
6	Liner w/Sealing Rings	FP-A153638WS	S STD	From Ser. No. 2539001. For blocks w/5.427" counterbore dia.; Sleeve has 5.19" dia. firewall & (3) FP-2387248 sealing rings; May be used before Ser. No. 2539001 if the counterbores are reworked.



Combine A504BDT, 504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Wheel Tractor
 (cont.) A504BDT, 504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Crawler Tractor A504BDT, 504BDT, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Wheel Loader A504BDT, 504BDTI, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Excavator A504BDT, 504BDTI, 504BDTI, 6-504BDT Engs. (Turbo-Diesel). Concrete Placer A504BDT, 504BDTI, 504BDTI, 6-504BDT Engs. (Turbo-Diesel).

8.3L 504 Turbo-Diesel L6, 4.625" Bore

	0.5L 50+ Turbo-Dieser Lo, 4.025						
	CYLINDER COMPONENTS (cont.)						
QTY	LINERS (cont.)	PART NO.	SIZE	DESCRIPTION			
6	Liner w/Sealing Rings	FP-A182185WS	-	To Ser. No. 2539000 - for blocks w/5.386" dia. counterbores; Sleeve has 5.09" dia. firewall & (2) FP-2387157 sealing rings; Counterbores may be reworked to use FP-A153638WS sleeve			
6	Cylinder Kit Complete	FP-A1521771	STD	with 3 sealing rings and 5.19" dia. firewall. A504BDT Engs.; From Ser. No. 2539001; Contains FP-A153638 sleeve; May be used before Ser. No. 2539001 if the cntr. bores are reworked			
6	Cylinder Kit Complete	FP-CK24852185	STD	A504BDT Engs.; To Ser. No. 2539000; Contains FP-A182185 sleeve			
6	Cylinder Kit Complete	FP-CK82353638	STD	A504BDTI (Turbo & Aftercooled) Engs.; From Ser. No. 2539001 Contains FP-A153638 sleeve			
6 6	Sealing Ring, Liner Sealing Ring, Liner	FP-2387248 FP-2387157		Use w/FP-A153638 Liner Use w/FP-A182185 Liner			
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION			
6	Piston Body w/o Pin	FP-A152485	0	A504BDT Engs.; Cast; 2-1/8, 1-3/16 Ring Groove; Dish Head .790" deep x 2.680" dia. w/2 valve reliefs; 16.1:1 C.R.			
6 6	Piston Body w/o Pin Piston Kit w/Pin & Retainers	FP-A138235 FP-A152485WP	STD	A504BDTI Turbo & Aftercooled Engs.; Cast A504BDT Engs.; Cast; 2-1/8, 1-3/16 Ring Groove; Dish Head .790" deep x 2.680" dia. w/2 valve reliefs; 16.1:1 C.R.			
6	Piston Kit w/Pin & Retainers	FP-A138235WP	STD	A504BDTI Turbo & Aftercooled Engs.; Cast; 2-1/8, 1-3/16 Ring Groove; Dish Head .790" deep x 2.680" dia. w/2 valve reliefs.			
	Dia.	ED AFOEOA		Dual Ni-resist Insert			
6	Pin Bioton Bin Botoiner	FP-A58584		1.800" Dia.			
12	Piston Pin Retainer	FP-10021181		W/1 000" sin dia			
6	Pin Bushing	FP-A58580		W/1.800" pin dia.			
	CONNECTING RODS &						
	BRGS.	PART NO.		DESCRIPTION			
6	Rod Pair	FP-A43173	STD	2.7490" Crank Pin Dia.			
6	Rod Pair	FP-A43174		2.7490" Crank Pin Dia.			
6	Rod Pair	FP-A43175		2.7490" Crank Pin Dia.			
6	Rod Pair	FP-A43176		2.7490" Crank Pin Dia.			
6	Rod Pair	FP-A43177		2.7490" Crank Pin Dia.			
6	Rod Pair	FP-A4317340		2.7490" Crank Pin Dia.			
6	Rod Pair	FP-A41758		2.9990" Crank Pin Dia.			
6	Rod Pair	FP-A41900		2.9990" Crank Pin Dia.			
6	Rod Pair	FP-A41901		2.9990" Crank Pin Dia.			
6	Rod Pair	FP-A41902	30	2.9990" Crank Pin Dia.			
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION			
6	Ring Set Single Cylinder	FP-A44054		Check piston grooving before supplying ring set; 2-1/8, 1-3/16; 2 cyl. set			
3	Premium Set	FP-A44054S	STD	Check piston grooving before supplying ring set; 2-1/8, 1-3/16 (2 cyl. set)			
	KITS						
	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION			
1	Complete Overhaul Kit	FP-IFK504L		From Ser. No. 2539001			
1	Complete Overhaul Kit	FP-IFK504E		To Ser. No. 2539000			
58	Results of the State of the Sta						
	CYL. HEAD & PARTS						
1	GASKETS Valve Cover Gasket	PART NO. FP-3939284		DESCRIPTION			
26	HEAD BOLTS Head Bolt	PART NO. FP-3917728	SIZE	DESCRIPTION M14 X 2.00 X 160			
QTY	VALVE	PART NO.	SIZE	DESCRIPTION			
12	Intake	FP-3942588					
12	Exhaust	FP-3942589					
12	Exhaust Valve Kit	FP-3800341		Incl. (1)FP-3942589 Valve, (2)FP-3900250 Keepers			
12	Intake Valve Kit	FP-3800340		Incl. (1)FP-3942588 Valve, (2)FP-3900250 Keepers			



Cotton Picker ISC 8.3 Engines. Wheel Tractor ISC 8.3 Engines. 58 8.3L 505 (8300cc) OHV Turbo-Diesel L6 (24 Valve), 114mm Bore (Cummins Eng.) (cont.) CYL. HEAD & PARTS (cont.) QTY VALVE (cont.) PART NO. SIZE **DESCRIPTION** FP-3900250 48 Keeper Exh. & Int. QTY VALVE SPRING PART NO. DESCRIPTION SIZE 24 Spring FP-4936076 Exh. & Int.; Use for Exhaust on Engines w/o Rotators FP-4936079 Exh. & Int.; Use for Exhaust on Engines w/Rotators 24 Spring QTY **VALVE SEAL** DESCRIPTION PART NO. FP-3948578 Valve Stem Seal Exh. & Int.; Rubber 24 **FUEL SYSTEM & PARTS QTY FUEL FILTERS & PUMP** DESCRIPTION PART NO. SIZE O-Ring FP-3029820 Injector seal FP-3867043 6 O-Ring Injector Connector seal COOLING SYSTEM QTY WATER PUMP **DESCRIPTION** PART NO. SIZE Water Pump - Heavy Duty FP-4089647 QTY PART NO. **THERMOSTAT DESCRIPTION** SIZE FP-3940632 180 Degree Thermostat FP-3913032 Water Outlet Thermostat Gasket 1 **ENGINE BLOCK & PARTS** SIZE DESCRIPTION QTY GASKETS PART NO. Oil Pan Gasket FP-3938160 Washer FP-3902425 Sealing; Oil Pan Plug Bottom Washer FP-3920773 Sealing; Oil Pan Plug Side; 18.40MM I.D. x 1.5MM Thick QTY CAM BEARINGS **DESCRIPTION** PART NO. SIZE FP-3945329 Cam Brg. STD CRANKSHAFT/OIL PUMP **SEALS - FRONT CRANK DESCRIPTION** PART NO. SIZE FP-3353977 Oil Seal Front Oil Seal Kit FP-3925343 Front; Incl. wear sleeve 1 QTY SEALS - REAR CRANK **DESCRIPTION** PART NO. Oil Seal FP-3909411 Rear; Double Lip; Wet Clutch Oil Seal FP-3909410 Rear; Single Lip; Dry Clutch Oil Seal Kit FP-3926126 Rear; Single Lip; Dry Clutch; Incl. Wear Sleeve Redi-Sleeve FP-3906081 Rear Cover Gasket FP-3939353 Rear Rect. or Square Seal FP-3912473 Rear; Rear Cover; Rectangular QTY MAIN BEARINGS PART NO. **DESCRIPTION** SIZE Main Set FP-3945917 STD Narrow style, 31.85 - 32.10MM Main Set FP-3945918 .25MM Narrow style, 31.85 - 32.10MM 1 Main Set FP-3945919 .50MM Narrow style, 31.85 - 32.10MM QTY OIL PUMP PART NO. SIZE DESCRIPTION Oil Suction Tube Gasket FP-3914302 CYLINDER COMPONENTS QTY LINERS PART NO. SIZE DESCRIPTION Liner w/o Sealing Rings FP-3948095 6 Liner w/Sealing Rings FP-3800328 Cylinder Kit Complete FP-3800321 CPX610, CPX620 before S/N Y6T011701, MX285 6 STD Cylinder Kit Complete FP-LK03208095 Incl. FP-3943367 piston Cylinder Kit Complete 6 FP-3800319 STD MX240, MX255, MX270, STX275; Incl. FP-3942106 piston Sealing Ring, Liner FP-3907177 6 QTY **PISTONS** PART NO. SIZE **DESCRIPTION** 6 Piston Body w/o Pin FP-3942106 STD Piston Body w/o Pin FP-3943367 STD 6 Piston w/Retainer & Rings FP-3800318 STD Piston w/Retainer & Rings FP-3800320 Incl. FP-3943367 piston; Incl. FP-3943367 piston STD 6 6 Piston w/Pin, Retainer, Rings FP-PK2106 STD Incl. FP-3942106 piston 6 Pin FP-3934046 12 Piston Pin Retainer FP-3920692 Piston Cooling Nozzle FP-3928031 Thick-walled block; Late; S/N 91C & Up; 91C>; Engs. w/12 6 cooling nozzles FP-3913990 6 Pin Bushing



**58** Cotton Picker ISC 8.3 Engines. Wheel Tractor ISC 8.3 Engines. (cont.) 8.3L 505 (8300cc) OHV Turbo-Diesel L6 (24 Valve), 114mm Bore (Cummins Eng.)

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	CYLINDER COMPONENTS (cont.)					
	CONNECTING RODS &					
QTY	BRGS.	PART NO.	SIZE	DESCRIPTION		
6	Rod Pair	FP-3950661	STD	Brazil Applications		
6	Rod Pair	FP-3950662	.25MM	Brazil Applications		
6	Rod Pair	FP-3950663	.50MM	Brazil Applications		
6	Rod Pair	FP-3950664	.75MM	Brazil Applications		
6	Rod Pair	FP-3950665	1.00MM	Brazil Applications		
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION		
6	Ring Set Single Cylinder	FP-87343194		For articulated pistons		
6	Ring Set Single Cylinder	FP-3802429	STD	Use w/FP-3942106 piston		
6	Ring Set Single Cylinder	FP-3802538	STD	Use w/FP-3943367 piston		
	KITS					
QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION		
1	In-Frame Overhaul Kit	FP-IFKISCQSC				
1	Complete Overhaul Kit	FP-OHISCQSC				

Combine. Cotton Picker. Loader. Power Unit. Wheel Tractor "C" Series; 6CT8.3 (6T-830)(Turbo), 6CTA8.3(6TA-830)(Turbo-Aftercooled). Crawler Tractor. Wheel Loader. Excavator.

8.3L 505 (8300cc) OHV Turbo-Diesel L6, 114mm Bore (Cummins Eng.)

	6.3L 505 (6500CC) OTTV Turbo-bieser L6, 114HIIII Bore (Curiniliiis Eng.)				
	CYL. HEAD & PARTS				
QTY	GASKETS	PART NO.	SIZE	DESCRIPTION	
1	Valve Cover Gasket	FP-3905449			
1	Head Gasket	FP-3935585			
1	Head Set	FP-4025271		Incl. valve stem seals	
QTY	HEAD BOLTS	PART NO.	SIZE	DESCRIPTION	
14	Head Bolt	FP-3917728		From S/N 44487830 Long; M14 X 2.00 X 160	
12	Head Bolt	FP-3917729		From S/N 44487830 Short; M14 X 2.00 X 80	
14	Head Bolt	FP-3907233		To S/N 44487829 Long; M14 X 2.00 X 150	
12	Head Bolt	FP-3907234		To S/N 44487829 Short; M14 X 2.00 X 70	
QTY	VALVE	PART NO.	SIZE	DESCRIPTION	
6	Intake	FP-3924492			
6	Exhaust	FP-3921444			
6	Exhaust Valve Kit	FP-3802085		Incl. valve and keepers	
6	Intake Valve Kit	FP-3802463		Incl. valve and keepers	
24	Keeper	FP-3901177			
QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION	
6	Exh.	FP-3929005			
6	Int.	FP-3924582			
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION	
12	Guide	FP-3923564		Int. & Exh.	
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION	
6	Spring	FP-3916588		Exh.; 3.0500" Free Height	
6	Spring	FP-3906412		Int.; 2.6000" Free Height	
24	Spring	FP-4936079		Int. & Exh.; ISC Engine; 4 Valve Head	
QTY	VALVE MISC.	PART NO.	SIZE	DESCRIPTION	
1	Oil Filler Cap Gasket	FP-3902466			
QTY	VALVE SEAL	PART NO.	SIZE	DESCRIPTION	
12	Valve Stem Seal	FP-3927642		Int. & Exh.	
QTY	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION	
6	Rocker Shaft	FP-3919435			
2	Expansion Plug	FP-3907555		Rocker Lever	
6	O-Ring	FP-3910824		Rocker Lever Cover Screw; .364" I.D. x .070" Thick	
12	Adjusting Screw Nut	FP-203131		3/8" - 24 UNF	
12	Support, Rocker Lever	FP-3905870			
12	Rocker Lever Exhaust	FP-3901717			
6	Clamp	FP-3901693		Rocker Lever	
12	Snap Ring	FP-3901764		Rocker Lever	
	INT & EXH MANIFOLDS				
QTY	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION	
6	Exhaust Manifold Gasket	FP-3932063			
1	Intake Manifold Gasket	FP-3936993			



Combine. Cotton Picker. Loader. Power Unit. Wheel Tractor "C" Series; 6CT8.3 59 (6T-830)(Turbo), 6CTA8.3(6TA-830)(Turbo-Aftercooled). Crawler Tractor. Wheel Loader. (cont.) Excavator.

8.3L 505 (8300cc) OHV Turbo-Diesel L6, 114mm Bore (Cummins Eng.)

	6.3L 303 (6300CC) OHV Tulbo-Diesel L6, 114Hilli Bole (Cullillillis Elig.)				
	CAMSHAFT GROUP				
QTY 1	TIMING COVER Oil Filler Cap	PART NO. FP-101322	SIZE	DESCRIPTION 2"	
1	CAMSHAFT/LIFTER Camshaft	PART NO. FP-3923478	SIZE	DESCRIPTION  CPL's 601-5, 752-5, 805, 818-9, 828-31, 848, 890, 892-3, 942, 954, 959, 982, 984-5, 1196, 1212, 1217, 1221-2, 1248, 1269, 1273-5, 1321, 1356, 1366, 1377, 1435, 1464, 1539, 1547, 1603, 1612, 1616, 1633, 1639, 1826.; To use this camshaft, you must purchase the following O.E. Replacement parts from Cummins(TM): 3918777 cam gear, 3927155 thrust plate, and 3902332 key.	
12	FUEL SYSTEM & PARTS	FP-3931623			
OTV	FUEL INJECTION	PART NO.	CIZE	DESCRIPTION	
1	Injector Tube	FP-3906783	SIZE	No. 1 Cylinder	
1	Injector Tube	FP-3906784		No. 2 Cylinder	
1	Injector Tube	FP-3906785		No. 3 Cylinder	
1	Injector Tube	FP-3910521		No. 4 Cylinder	
1	Injector Tube	FP-3906788		No. 5 Cylinder	
6	Copper Washer Fuel Line Connector	FP-3906659 FP-3903380		1.50MM Thick Fuel Manifold; Banjo connector	
	FUEL FILTERS & PUMP		CIZE	DESCRIPTION	
1	Fuel Transfer Pump	<i>PART NO.</i> FP-4944712	SIZE	117 - 229.9 LPH; 1/4 x 18 NPTF Fuel Inlet	
1	Cover Plate Gasket	FP-3931348		Fuel Transfer Pump Mounting	
2	Washer	FP-3918191		Sealing; Fuel Filter; .500" I.D., Banjo Connector	
2	Washer	FP-3918192		Sealing; Fuel Inlet Tube	
2	Washer	FP-3918188		Sealing; Fuel Supply Tube	
1	Fuel Shutdown Solenoid Fuel Shutdown Solenoid	FP-3921978		12V 24V	
<u> </u>		FP-3921980	0175		
QTY 1	TURBOCHARGER Turbocharger Mounting Gasket	PART NO. FP-3911941	SIZE	DESCRIPTION	
	COOLING SYSTEM				
	WATER PUMP	PART NO.	SIZE	DESCRIPTION	
1 1	Water Pump - Heavy Duty Ball Brg.	FP-3806180 FP-3910739		Fan Drive	
Ιί	O-Ring	FP-3902089		Water Pump Mounting	
1	Shaft & Bearing Assembly	FP-3903787		Trater i amp incuraing	
1	V Belt	FP-3911558		59 X 1.125"; Ribbed 8	
1	V Belt	FP-3911582		70 X 1.125"; Ribbed 8	
	THERMOSTAT	PART NO.	SIZE		
2	Thermostat	FP-3928639		180 Deg. F	
1	Thermostat Gasket	FP-3914310		Thermostat Housing	
	ENGINE BLOCK & PARTS				
	GASKETS Gil Bon Cooket	PART NO.	SIZE	DESCRIPTION	
1	Oil Pan Gasket Washer	FP-3938160 FP-3902425		Sealing: Oil Pan Plug	
	Washer	FP-3902425 FP-3920773		Sealing, Oil Pan Plug; 18.40MM I.D. x 1.5MM Thick	
1	Cover Plate Gasket	FP-3908096		Bell Housing	
1	Gear Cover Gasket	FP-3917780		-	
1	Gear Housing Gasket	FP-3281721			
QTY	GASKET SETS	PART NO.	SIZE	DESCRIPTION	
1	Gasket Conversion Set	FP-3800558		When deplated use ED 0000ED	
1 1	Gasket Conversion Set In-Frame Gasket Set	FP-3802389 FP-4025271S		When depleted use FP-3800558 Incl. valve stem seals	
	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION	
7	Cam Brg.	FP-3945329	STD	DESCRIP HON	
QTY	OIL COOLERS & FILTERS	PART NO.	SIZE	DESCRIPTION	
1	Oil Cooler	FP-3974815			
1	Oil Press. Reg. Low Pressure	FP-3945967		Caro Filtar Hood to S/N 44500100	
1 1	Oil Cooler Gasket Oil Cooler Core Inner Gasket	FP-3914308 FP-3918174		Core, Filter Head to S/N 44500128 Core	
Ιί	Oil Cooler Core Outer Gasket	FP-3918332		Core, Filter Head from S/N 44500129	
				,	



59 Combine. Cotton Picker. Loader. Power Unit. Wheel Tractor "C" Series; 6CT8.3 (cont.) (6T-830)(Turbo), 6CTA8.3(6TA-830)(Turbo-Aftercooled). Crawler Tractor. Wheel Loader. Excavator.

8.3L 505 (8300cc) OHV Turbo-Diesel L6, 114mm Bore (Cummins Eng.)

	8.3L 505 (8300cc) OHV Turbo-Diesel L6, 114mm Bore (Cummins Eng.)					
	ENGINE BLOCK & PARTS (cont.)					
QTY 1	FREEZE PLUGS Expansion Plug	PART NO. FP-3901969	SIZE	DESCRIPTION		
	CRANKSHAFT/OIL PUMP					
QTY 1	CRANKSHAFT Crankshaft	PART NO. FP-3918986	SIZE	DESCRIPTION		
<b>QTY</b> 1	SEALS - FRONT CRANK Oil Seal Oil Seal Kit	PART NO. FP-3353977 FP-3925343	SIZE	DESCRIPTION Front Front; Incl. wear sleeve		
QTY 1 1 1 1 1 1	SEALS - REAR CRANK Oil Seal Oil Seal Oil Seal Kit Redi-Sleeve Rear Cover Gasket Rear Cover Gasket Rect. or Square Seal	PART NO. FP-3909411 FP-3909410 FP-3926126 FP-3906081 FP-3939353 FP-3914301 FP-3912473	SIZE	DESCRIPTION Rear; Double Lip; Wet Clutch Rear; Single Lip; Dry Clutch Single Lip; Dry Clutch; Incl. Wear Sleeve Rear Rear Rear; Seal Retainer Rear; Rectangular		
1 1 1 1 1	MAIN BEARINGS Main Set OIL PUMP Oil Pump Oil Pump	PART NO. FP-3945917 FP-3945918 FP-3945919 FP-3802210 FP-3802211 FP-3802212 PART NO. FP-3948071 FP-3800828	STD .25MM .50MM STD	DESCRIPTION  Narrow style, 31.85 - 32.10MM  Narrow style, 31.85 - 32.10MM  Narrow style, 31.85 - 32.10MM  Wide style, 33.85 - 34.10MM  Wide style, 33.85 - 34.10MM  Wide style, 33.85 - 34.10MM  DESCRIPTION  Includes Pressure Regulator		
1	Oil Suction Tube Gasket  CYLINDER COMPONENTS	FP-3914302		-		
OTV	LINERS	PART NO.	CIZE	DESCRIPTION		
6	Liner w/o Sealing Rings	FP-3948095	SIZE	To be used with late thick-walled cylinder block #3934899 Effective 1/05/98. This liner is 3mm shorter than previous liners. Refer to Cummins Service Topics 99T1-3.		
6	Liner w/o Sealing Rings	FP-3907792		To S/N 44706125; To be used with early standard cylinder block #3802265 prior to 1991.		
6	Liner w/o Sealing Rings	FP-3919937		6T-830, 6TA-830; From S/N 44706126; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98.		
6 6	Liner w/Sealing Rings Liner w/Sealing Rings	FP-3802370 FP-3800328		To S/N 44706125; Early; Prior to 1991 1/05/98 to Present; Thick-walled block; Liner is 3mm shorter than previous liners; Refer to Cummins Service Topics 99T1-3.		
6	Liner w/Sealing Rings	FP-3802407		6T-830, 6TA-830; From S/N 44706126; 1991 thru 1/04/98; Thick-walled Block		
6	Cylinder Kit Complete	FP-LK91618095		To be used with late thick-walled cylinder block #3934899 Effective 1/05/98. This liner is 3mm shorter than previous liners. Refer to Cummins Service Topics 99T1-3.; Contains piston FP-3929161 & liner FP-3948095		
6	Cylinder Kit Complete	FP-3934588		To be used with late thick-walled cylinder block #3934899 Effective 1/05/98. This liner is 3mm shorter than previous liners. Refer to Cummins Service Topics 99T1-3.; Contains piston FP-3925878 & liner FP-3948095		
6	Cylinder Kit Complete	FP-LK31648095	STD	To be used with late thick-walled cylinder block #3934899 Effective 1/05/98. This liner is 3mm shorter than previous liners. Refer to Cummins Service Topics 99T1-3.; Contains piston FP-3923164 & liner FP-3948095		
6	Cylinder Kit Complete	FP-LK77078095		To be used with late thick-walled cylinder block #3934899 Effective 1/05/98. This liner is 3mm shorter than previous liners. Refer to Cummins Service Topics 99T1-3.; Contains piston FP-3917707 & liner FP-3948095		
6	Cylinder Kit Complete	FP-4020062	STD	To be used with late thick-walled cylinder block #3934899 Effective 1/05/98. This liner is 3mm shorter than previous liners. Refer to Cummins Service Topics 99T1-3.; Contains piston FP-4019886 & liner FP-3948095		
6	Cylinder Kit Complete	FP-LK92477792		To S/N 44706125; To be used with early standard cylinder block #3802265 prior to 1991.; Contains piston FP-3919247 & liner FP-3907792		



Combine. Cotton Picker. Loader. Power Unit. Wheel Tractor "C" Series; 6CT8.3 59 (6T-830)(Turbo), 6CTA8.3(6TA-830)(Turbo-Aftercooled). Crawler Tractor. Wheel Loader. (cont.) Excavator.

8.3L 505 (8300cc) OHV Turbo-Diesel L6, 114mm Bore (Cummins Eng.)

	OVI INDED COMPONENTS ()					
	CYLINDER COMPONENTS (cont.	•				
QTY	LINERS (cont.)	PART NO.	SIZE	DESCRIPTION		
6	Cylinder Kit Complete	FP-3802372		To S/N 44706125; To be used with early standard cylinder block #3802265 prior to 1991.; Contains piston FP-3919566 & liner FP-3907792		
6	Cylinder Kit Complete	FP-3802388		To S/N 44706125; To be used with early standard cylinder block #3802265 prior to 1991.; Contains piston FP-3917707 & liner FP-3907792		
6	Cylinder Kit Complete	FP-3802399		To S/N 44706125; To be used with early standard cylinder block #3802265 prior to 1991.; Contains piston FP-3923165 & liner FP-3907792		
6	Cylinder Kit Complete	FP-4020060	STD	To S/N 44706125; To be used with early standard cylinder block #3802265 prior to 1991.; Contains piston FP-4019886 & liner FP-3907792		
6	Cylinder Kit Complete	FP-3802400		6T-830; To be used with early standard cylinder block #3802265 prior to 1991; To Eng. S/N 44706125 w/piston stamped 3163, 8749, 9564, 9928		
6	Cylinder Kit Complete	FP-3802403		6T-830; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98; From Eng. S/N 44706126 w/piston stamped 3163 or 9564		
6	Cylinder Kit Complete	FP-LK31638095	STD	6T-830; To be used with thick-walled cylinder block #3934906; Short liner		
6	Cylinder Kit Complete	FP-LK92479937		6T-830, 6TA-830; From S/N 44706126; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98.; Contains piston FP-3919247 & liner FP-3919937		
6	Cylinder Kit Complete	FP-3802402		6T-830, 6TA-830; From S/N 44706126; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98.; Contains piston FP-3923165 & liner FP-3919937		
6	Cylinder Kit Complete	FP-3802405 +		6T-830, 6TA-830; From S/N 44706126; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98.; Contains piston FP-3919566 & liner FP-3919937; When		
6	Cylinder Kit Complete	FP-3802610		depleted use FP-4020061 6T-830, 6TA-830; From S/N 44706126; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98.; B Grade piston; Anodized crown & combustion bowl; Contains		
6	Cylinder Kit Complete	FP-3802743		piston FP-3925879 & liner FP-3919937 6T-830, 6TA-830; From S/N 44706126; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98.; A Grade piston; Anodized crown & combustion bowl; Contains		
6	Cylinder Kit Complete	FP-3802811		piston FP-3925878 & liner FP-3919937 6T-830, 6TA-830; From S/N 44706126; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98.; Contains piston FP-3929161 & liner FP-3919937		
6	Cylinder Kit Complete	FP-4020061	STD	6T-830, 6TA-830; From S/N 44706126; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98.; Contains piston FP-4019886 & liner FP-3919937		
6	Cylinder Kit Complete	FP-3802401		6T-830, 6TA-830; To be used with early standard cylinder block #3802265 prior to 1991; To Eng. S/N 44706125 w/piston stamped 3164, 9565, 9930		
6	Cylinder Kit Complete	FP-3934586		6TA-830; To be used with late thick-walled cylinder block #3934899 Effective 1/05/98. This liner is 3mm shorter than previous liners. Refer to Cummins Service Topics 99T1-3.		
6	Cylinder Kit Complete	FP-3802406		6TA-830; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98.		
6	Cylinder Kit Complete	FP-3802404		6TA-830; To be used with late thick-walled cylinder block #3928962 1991 thru 1/04/98; From Eng. S/N 44706126 w/piston stamped 3164 or 9565		
6	Sealing Ring, Liner	FP-3907177				
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION		
6	Piston Body w/o Pin	FP-3923165		-		
6	Piston Body w/o Pin	FP-3929161	STD			
6	Piston Body w/o Pin	FP-3925878		A Grade; Anodized crown & combustion bowl		
6	Piston Body w/o Pin	FP-3925879		B Grade; Anodized crown & combustion bowl		
6	Piston Body w/o Pin	FP-3356210		Brazilian applications.		
6	Piston Body w/o Pin	FP-3919247		Charge-Air-Cooled; Europe Appl.		
6	Piston Body w/o Pin	FP-3919566		When depleted use FP-4019886		
6	Piston Body w/o Pin Piston Body w/o Pin	FP-3923163		6T-830 6T-830, 6TA-830; Engine Coolant Aftercooled		
6	Piston Body w/o Pin Piston Body w/o Pin	FP-3923164 FP-3917707		6TA-830; Charge-Air-Cooled; U.S.A. Appl.		
6	Piston Kit w/Pin & Retainers	FP-3923163WP	STD	6T-830		
6	Piston Kit w/Pin & Retainers	FP-3923164WP				



Combine. Cotton Picker. Loader. Power Unit. Wheel Tractor "C" Series; 6CT8.3 59 (cont.) (6T-830)(Turbo), 6CTA8.3(6TA-830)(Turbo-Aftercooled). Crawler Tractor. Wheel Loader. Excavator.

8.3L 505 (8300cc) OHV Turbo-Diesel L6, 114mm Bore (Cummins Eng.)

	CYLINDER COMPONENTS (cont.)					
QTY	PISTONS (cont.)	PART NO.	SIZE	DESCRIPTION		
6	Piston Kit w/Pin & Retainers	FP-3917707WP	STD	6TA-830		
6	Piston w/Retainer & Rings	FP-3802397	STD	6T-830		
6	Piston w/Retainer & Rings	FP-3802398	STD	6T-830, 6TA-830		
6	Piston w/Retainer & Rings	FP-3802263	STD	6TA-830		
6	Piston w/Pin, Retainer, Rings	FP-PK3163	STD	6T-830		
6	Piston w/Pin, Retainer, Rings	FP-PK3164	STD	6T-830, 6TA-830		
6	Piston w/Pin, Retainer, Rings	FP-PK7707	STD	6TA-830		
6	Pin	FP-3934046				
12	Piston Pin Retainer	FP-3920692				
6	Piston Cooling Nozzle	FP-3905928		Early; < 91C; Engs. w/6 cooling nozzles		
12	Piston Cooling Nozzle	FP-3928031		Thick-walled block; Late; 91C>; Engs. w/12 cooling nozzles		
6	Pin Bushing	FP-3913990				
	CONNECTING RODS &					
QTY	BRGS.	PART NO.	SIZE	DESCRIPTION		
12	Con. Rod Bolt	FP-3928870				
12	Con. Rod Nut	FP-3934864				
6	Rod Bearing Half Upper/Lower	FP-3901430	STD			
6	Rod Bearing Half Upper/Lower	FP-3901431	.25MM			
6	Rod Bearing Half Upper/Lower	FP-3901432	.50MM			
6	Rod Bearing Half Upper/Lower	FP-3901433	.75MM			
6	Rod Bearing Half Upper/Lower	FP-3901434	1.00MM			
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION		
6	Ring Set Single Cylinder	FP-3802110	STD	For Early engines; Replaces O.E. No. A77562		
6	Ring Set Single Cylinder	FP-3802429	STD	6T-830, 6TA-830		
	KITS					
QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION		
1	In-Frame Overhaul Kit	FP-6C83PREM		Premium; With Upper Gasket Set & Pan Gasket		
1	Complete Overhaul Kit	FP-6C83PREMOH		Premium, With Front & Rear Seals and Upper & Lower Gasket Sets		

Wheel Tractor L10 (LTA10) (4-Valve Cyl. Head)
10.0L 611 (10000cc) OHV Turbo-Diesel L6 (24 Valve), 125mm Bore (Cummins Eng.)

	10.02 011 (1000000) 0117 Talbe Blood 20 (21 Valve), 1201111 Bolo (Callillinia Eng.)				
	CYL. HEAD & PARTS				
QTY	GASKETS	PART NO.	SIZE	DESCRIPTION	
1	Valve Cover Gasket	FP-3883220		Late	
1	Rocker Cover Gasket	FP-3034855		Early	
1	Head Gasket	FP-2864080		•	
1	Head Gasket	FP-4022500			
1	Head Set	FP-4025155		Early	
1	O-Ring	FP-3037537		9/16" Dia. ID	
QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION	
3	Bolt	FP-4022907		14MM X 1.50MM X 70MM	
12	Screw	FP-147389		Crosshead; 3/8" - 24 UNF x 3/4"	
QTY	VALVE	PART NO.	SIZE	DESCRIPTION	
12	Intake	FP-3033234		Bare	
12	Intake	FP-3418020		Bare	
12	Exhaust	FP-3418021			
12	Exhaust	FP-3417713		w/Letter 'S' stamped in head; Chrome plated stem; 1.6730" Head Dia., .3789" Stem Dia., 6.9400" O.A.L.	
12	Exhaust Valve Kit	FP-3803996		w/Letter 'S' stamped in head; Incl. FP-3417713 valve & (2) FP-3275354 keepers; 1.6730" Head Dia., .3789" Stem Dia., 6.940" O.A.L.	
12	Exhaust Valve Kit	FP-3800639		Incl. FP-3418021 valve & (2) FP-3275354 keepers	
12	Intake Valve Kit	FP-3801356		Incl. FP-3033234 valve & (2) FP-3275354 keepers	
12	Intake Valve Kit	FP-3800638		Incl. FP-3418020 valve & (2) FP-3275354 keepers	
48	Keeper	FP-3275354			
QTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION	
12	Exh.	FP-3090704		1.8110" OD, 1.4300" ID, .1850" Depth	
12	Exh.	FP-3418040	STD	1.8120" OD, 1.4500" ID, .1970" Depth	
24	Exh. & Int.	FP-3418052			
12	Int.	FP-3090703		1.8100" OD, 1.4250" ID, .1850" Depth	
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION	
24	Guide	FP-3033314			
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Wheel Tractor L10 (LTA10) (4-Valve Cyl. Head) 60
10.0L 611 (10000cc) OHV Turbo-Diesel L6 (24 Valve), 125mm Bore (Cummins Eng.) (cont.)

	10.0L 6	11 (10000cc) OH\	/ Turbo-l	Diesel L6 (24 Valve), 125mm Bore (Cummins Eng.) (cont.)
	CYL. HEAD & PARTS (cont.)			
QTY	VALVE GUIDE (cont.)	PART NO.	SIZE	DESCRIPTION
24	Guide	FP-3328785		.3819" ID, 2.6330" O.A.L.
24	Guide	FP-3033230		Valve Spring Seat
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
24	Spring	FP-3895860		4.0670" Free Height
24	Spring	FP-3033233		Inner
24	Spring	FP-3033232		Outer
	VALVE SEAL	PART NO.	SIZE	DESCRIPTION
24	Valve Stem Seal	FP-3328781		Int. & Exh.
1	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
8	Expansion Plug	FP-3007635		1.00" Dia.
12 6	Cam Follower Roller Injector Cam Roller	FP-3895488 FP-3895487		Valve
5	Adjusting Screw Nut	FP-S212		Injector 1/2" - 20 UNF; Use w/FP-168306
12	Adjusting Screw Nut	FP-203131		3/8" - 24 UNF
12	Valve Bridge Guide	FP-123558		
12	Valve Roller Pin	FP-3335342		Cam Follower
18	Rocker Lever Adjusting Screw	FP-168306		1/2" - 20 UNF x 2.045" Length; Use w/FP-S212
6	Fuel Injector Roller Pin	FP-3335341		Cam Follower
6	Valve Lifter Socket	FP-3033292		Cam Follower; Early
	INT & EXH MANIFOLDS			
	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
6	Exhaust Manifold Gasket	FP-3328948		
	CAMSHAFT GROUP			
QTY	TIMING COVER	PART NO.	SIZE	DESCRIPTION
1	Oil Filler Cap	FP-101322		2"
QTY	CAMSHAFT/LIFTER	PART NO.	SIZE	DESCRIPTION
1	Camshaft	FP-3036117		CPL's 528, 638, 703, 704, 717, 770, 773, 774, 775, 776, 777,
				784, 785, 786, 881, 882, 894, 919, 921, 958, 1198, 1234, 1198,
				1359, 1414, 1454, 1459, 1660, 1674, 1687, 1695, 1696, 1699, 1849.; Bare
1	Camshaft	FP-3037523		CPL's 652, 655, 671, 735, 748, 751, 764, 765, 780, 781, 783,
				787, 788, 789, 790, 835, 836, 894, 978, 995, 1208, 1429,
				1443.; Bare
	AIR COMPRESSOR			
QTY	AIR COMPRESSOR	PART NO.	SIZE	DESCRIPTION
1	Air Compressor Gasket Set	FP-AR73308		13.2 CFM
1	Air Compressor Gasket	FP-176027		Support to Compressor Housing; 13.2 CFM
1	Air Compressor Gasket	FP-154018		13.2 CFM
1	Air Compressor Gasket Air Connection Gasket	FP-3047159 FP-3201386		13.2 CFM 13.2 CFM
li	O-Rina	FP-128085		13.2 CFM
1	O-Ring	FP-128086		13.2 CFM
1	O-Ring	FP-3043995		13.2 CFM
1	Gasket	FP-3820922		Air Compressor Support; 13.2 CFM
1	Air Compressor Seal Ring	FP-127936		13.2 CFM
	FUEL SYSTEM & PARTS			
	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Sleeve	FP-3070486		Thin
12	Fuel Injector Sleeve	FP-3070486		Thin
6	Screw Screw	FP-3018772 FP-3055742		PTD Top Stop PTD Top Stop
6	Fuel Injector	FP-3055742 FP-3045102		PTD Top Stop
6	Fuel Injector Repair Parts	FP-167157		Check Ball
6	Fuel Injector Valve Spring	FP-166009		
6	Retainer, Fuel Inj. Spring	FP-3049995		PTD Top Stop
6	Fuel Inj. Plunger & Barrel	FP-3049996		PTD Top Stop
6	Fuel Inj. Plunger & Barrel	FP-3069718		STC
1	Fuel Injector Adapter Fuel Injector Cup	FP-3028066 FP-3069717		PTD Top Stop orifice number 8; orifice size 0.007; 14 Deg. spray angle
1	Fuel Injector Cup	FP-3009717 FP-3071564		orifice number 8; orifice size 0.007; 14 Deg. spray angle
1	Fuel Injector Cup	FP-3028068		orifice number 9; orifice size 0.007; 10 Deg. spray angle
6	Lock Nut	FP-3009362		PTD Top Stop
6	Fuel Injector Screen	FP-3008706		
6	Fuel Injector Roller Pin	FP-203426		
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			) (4-Valve Cyl. He		
(cont.)	10.0L 611 (1	0000cc) OHV Turbo-	Diesel L6 (24 Valve),	125mm Bore (Cummins Eng.)	

	FUEL SYSTEM & PARTS (cont.)						
QTY	FUEL INJECTION (cont.)	PART NO.	SIZE	DESCRIPTION			
6	Fuel Injector Retainer	FP-185138		PTD Top Stop Injector			
QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION			
1	Fuel Pump Valve	FP-3050624					
1	Fuel Pump Valve	FP-3035342		Shutdown; 12V			
1	Fuel Pump Valve	FP-3035344		Shutdown; 24V			
2	Fuel Pump Gear	FP-119364		1 1/4"			
2	Fuel Pump Gear	FP-119363		3/4"			
1	Fuel Pump Drive Shaft	FP-3000266		Fuel Shutoff Valve			
1 1	Fuel Pump Drive Shaft Fuel Pump Drive Shaft	FP-212601 FP-100215		Main Shaft; AFC 3/4"; Drive, Splined			
	Fuel Pump Check Valve	FP-100215 FP-3030970		Fuel Shutoff Valve			
6	O-Ring	FP-3030970 FP-3007759		I doi Ondion Valve			
6	O-Ring	FP-193736		Fuel Injector			
18	O-Ring	FP-193736		Fuel Injector Mounting; Non Celect			
6	O-Ring	FP-3007759		Injector Sleeve			
2	O-Ring	FP-3042542		AFC Assembly			
1	O-Ring	FP-3045986		AFC Assembly			
1	O-Ring	FP-151900		Fuel Pump Damper; 0.621" OD, 0.494" ID			
1	O-Ring	FP-100099		Fuel Pump Damper; 1.627" OD, 1.364" ID			
1	O-Ring	FP-139988		Fuel Pump Damper; 1.752" OD, 1.489" ID			
1	O-Ring	FP-3040817		Fuel Chute # Volume			
1	O-Ring	FP-129888		Fuel Shutoff Valve			
1	O-Ring Fuel Rump Gasket	FP-190876		Fuel Shutoff Valve			
1	Fuel Pump Gasket	FP-4026171 FP-110855		Front Cover to Drive			
1 2	Fuel Pump Gasket Oil Seal	FP-110855 FP-3062676		Fuel Pump Body Front Cover			
1	Oil Seal   Ball Brg.	FP-3062676 FP-S16052		Front Cover Fuel Pump Front Cover			
	Bushing	FP-516052 FP-163944		Fuel Pump			
	Fuel Pump Spider Jaw Coupling	FP-103944 FP-3046200					
	Fuel Pump Check Valve	FP-3033740					
1	Air Fuel Control Check Valve	FP-3015522					
1	Fuel Pump Mounting Gasket	FP-3069017					
1	Fuel Pump Housing Cover	FP-3063052		Automotive			
1	Rect. or Square Seal	FP-154087		Fuel Shutoff Valve			
	COOLING SYSTEM						
QTV	WATER PUMP	PART NO.	SIZE	DESCRIPTION			
1	Water Pump - Heavy Duty	FP-3803403	JIZE	3 Hole Mount			
1	Water Pump - Heavy Duty	FP-3803402		4 Hole Mount			
1	Water Pump Shaft	FP-3040964		For FP-3803402 Pump			
1	Water Pump Shaft	FP-3819632		For FP-3803403 Pump; 4.216" Long			
1	Water Pump Impeller	FP-3035679					
1	Water Pump Repair/Rebuild Kit	FP-4024817		3 Hole Mount			
1	Water Pump Repair/Rebuild Kit	FP-3801179		4 Hole Mount			
1	Water Pump Retainer Ring	FP-3064634					
1	Water Pump Mech. Shaft Seal	FP-3029099					
1	Ball Brg.	FP-S16002					
1	Ball Brg.	FP-S16054					
1	Rect. or Square Seal	FP-3080770					
1	Oil Seal	FP-3019600 EP-3027675		Fan Drive			
1	Oil Seal	FP-3027675 FP-3033247		Fan Drive			
1 1	O-Ring O-Ring	FP-3033247 FP-3033248					
1 1	O-Ring O-Ring	FP-3033248 FP-3820791					
	, and the second						
	I O-Ring	FP-3892005					
	O-Ring O-Rina	FP-3892095 FP-3883284		Air Intake Connection: For 3.00" Dia. Turbocharger elbow			
	O-Ring			Air Intake Connection; For 3.00" Dia. Turbocharger elbow Oil Control Valve			
1	, and the second	FP-3883284					
1	O-Ring O-Ring	FP-3883284 FP-3045986		Oil Control Valve			
1 1 1	O-Ring O-Ring O-Ring	FP-3883284 FP-3045986 FP-3066914		Oil Control Valve Oil Control Valve			
1 1 1	O-Ring O-Ring O-Ring O-Ring Gasket Gasket	FP-3883284 FP-3045986 FP-3066914 FP-3037537		Oil Control Valve Oil Control Valve 9/16" Dia. ID Air Connection Connection			
1 1 1 1	O-Ring O-Ring O-Ring O-Ring Gasket	FP-3883284 FP-3045986 FP-3066914 FP-3037537 FP-3070100		Oil Control Valve Oil Control Valve 9/16" Dia. ID Air Connection			
1 1 1 1 1 1	O-Ring O-Ring O-Ring O-Ring Gasket Gasket Housing Gasket Snap Ring	FP-3883284 FP-3045986 FP-3066914 FP-3037537 FP-3070100 FP-3027924 FP-3027445 FP-112302		Oil Control Valve Oil Control Valve 9/16" Dia. ID Air Connection Connection			
1 1 1 1 1 1 1	O-Ring O-Ring O-Ring O-Ring Gasket Gasket Housing Gasket Snap Ring Water Pump Idler Assembly	FP-3883284 FP-3045986 FP-3066914 FP-3037537 FP-3070100 FP-3027924 FP-3027445 FP-112302 FP-3062602		Oil Control Valve Oil Control Valve 9/16" Dia. ID Air Connection Connection			
1 1 1 1 1 1	O-Ring O-Ring O-Ring O-Ring Gasket Gasket Housing Gasket Snap Ring	FP-3883284 FP-3045986 FP-3066914 FP-3037537 FP-3070100 FP-3027924 FP-3027445 FP-112302		Oil Control Valve Oil Control Valve 9/16" Dia. ID Air Connection Connection			
1 1 1 1 1 1 1	O-Ring O-Ring O-Ring O-Ring Gasket Gasket Housing Gasket Snap Ring Water Pump Idler Assembly	FP-3883284 FP-3045986 FP-3066914 FP-3037537 FP-3070100 FP-3027924 FP-3027445 FP-112302 FP-3062602	SIZE	Oil Control Valve Oil Control Valve 9/16" Dia. ID Air Connection Connection			
1 1 1 1 1 1 1	O-Ring O-Ring O-Ring O-Ring O-Ring Gasket Gasket Housing Gasket Snap Ring Water Pump Idler Assembly Water Pump Lock Ring  SEALS - FAN HUB Oil Seal	FP-3883284 FP-3045986 FP-3066914 FP-3037537 FP-3070100 FP-3027924 FP-3027445 FP-112302 FP-3062602 FP-160586	SIZE	Oil Control Valve Oil Control Valve 9/16" Dia. ID Air Connection Connection Heater Housing			
1 1 1 1 1 1 1 1 1 1 1	O-Ring O-Ring O-Ring O-Ring Gasket Gasket Housing Gasket Snap Ring Water Pump Idler Assembly Water Pump Lock Ring SEALS - FAN HUB	FP-3883284 FP-3045986 FP-3066914 FP-3037537 FP-3070100 FP-3027924 FP-3027445 FP-112302 FP-3062602 FP-160586	SIZE	Oil Control Valve Oil Control Valve 9/16" Dia. ID Air Connection Connection Heater Housing			



	Wheel Tractor L10 (LTA10) (4-Valve Cyl. Head) 60 10.0L 611 (10000cc) OHV Turbo-Diesel L6 (24 Valve), 125mm Bore (Cummins Eng.) (cont.)				
	COOLING SYSTEM (cont.)	( 11111)		37 (2.27)	
	THERMOSTAT	PART NO.	SIZE	DESCRIPTION	
1	Thermostat Gasket	FP-3818841		Thermostat Housing	
1	Rect. or Square Seal Rect. or Square Seal	FP-186780 FP-186780			
QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION	
2	Bearing Support Gasket	FP-3883365			
	ENGINE BLOCK & PARTS				
QTY 1	GASKETS Front Cover Gasket	PART NO. FP-3058148	SIZE	DESCRIPTION	
1	Oil Pan Gasket	FP-3882433		Early; Narrow flange pan gasket	
1	Oil Pan Gasket Set	FP-3882433PS		Early; Incl. narrow flange pan gasket, with washers and seal rings.	
1	Oil Pan Gasket Set	FP-3882733PS		Late; Incl. wide flange pan gasket, with washers and seal rings	
2	Washer	FP-67946		Oil Pan Plug; 1.03125" ID	
1 1	O-Ring O-Ring	FP-3883150 FP-3046201		O-Ring for 3/4" plug	
1	Cover Plate Gasket	FP-3025296		5 Timig for 5/1 plag	
1	Cover Plate Gasket	FP-3820872		·	
1 1	Gasket Gasket	FP-3600925 FP-3026134		End Plate Flywheel Housing	
3	Hand Hole Gasket	FP-3883472		r lywneer riousing	
1	Rect. or Square Seal	FP-3820945			
6	Rect. or Square Seal	FP-3820945			
1 1	Rect. or Square Seal Seal Strip	FP-3820946 FP-3893964 +		Gear Cover; When depleted use FP-4920751	
6	Ring - Seal	FP-3201659		dear dover, when depicted use 11 4320751	
QTY 1	GASKET SETS Gasket Conversion Set	PART NO. FP-3803404	SIZE	DESCRIPTION Early	
<b>QTY</b> 1	DOWEL PINS Dowel Pin	PART NO. FP-70550	SIZE	DESCRIPTION .312 Dia. X .500 Inch Length	
	CAM BEARINGS	PART NO.	SIZE	DESCRIPTION	
1 1	Cam Set Cam Set	FP-2878168S FP-3820566S +	STD	When depleted use FP-2878168S	
7	Cam Brg.	FP-2878168	STD	When depleted use 11 -20701005	
7	Cam Brg.	FP-3820566 +	STD	When depleted use FP-2878168	
	FREEZE PLUGS	PART NO.	SIZE	DESCRIPTION	
3 2	Expansion Plug Pipe Plug	FP-3007635 FP-3002158		1.00" Dia.	
<u> </u>	DIPSTICK	PART NO.	SIZE	DESCRIPTION	
1	Dipstick	FP-216484	OIZL	90" Long; Blank Universal	
QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION	
38	Bolt Pipe Plug	FP-4070463 FP-3002158		Short, Gear Cover; 8MM X 1.25MM x 12MM	
	CRANKSHAFT/OIL PUMP	11 0002100			
	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION	
1	Crankshaft	FP-3819989	J	5 Hole, Internal Dampner Only	
QTY	SEALS - FRONT CRANK	PART NO.	SIZE		
1	Oil Seal	FP-3803896		Front; Incl. seal kit & bolts	
1	Redi-Sleeve	FP-3820917	CIZE	Front	
QIY	SEALS - REAR CRANK Oil Seal Kit	PART NO. FP-3800643	SIZE	DESCRIPTION Rear; Dry	
1	Redi-Sleeve	FP-3819774		,	
QTY	MAIN BEARINGS	PART NO.	SIZE		
1	Main Set	FP-4025125		To March 1997; For engines w/roll pin design thrust washers	
1 1	Main Set Main Set	FP-4025126 FP-4025127		To March 1997; For engines w/roll pin design thrust washers To March 1997; For engines w/roll pin design thrust washers	
1	Main Set	FP-4025128	30	To March 1997; For engines w/roll pin design thrust washers	
1	Thrust Washer Set	FP-3161653S		· · · ·	
1	Thrust Washer	FP-3161653	STD		
	OIL PUMP O-Ring	PART NO.	SIZE	DESCRIPTION Lube Oil Transfer/Pick Up Tube	
2	O-Ring O-Ring	FP-3032787 FP-3042542		Oil Control Valve	
1	Oil Pump Cover Gasket	FP-3004242			
2	Oil Drain Plug	FP-3055069		Oil Pan; 1" - 18 UNS	
		(continue	. al a	* naga)	



60	60 Wheel Tractor L10 (LTA10) (4-Valve Cyl. Head)						
(cor	(cont.) 10.0L 611 (10000cc) OHV Turbo-Diesel L6 (24 Valve), 125mm Bore (Cummins Eng.)						
	CRANKSHAFT/OIL PUMP (cont.)						
	OIL PUMP (cont.)	PART NO.	SIZE				
2	Oil Drain Plug Filter Head Gasket	FP-3055069 FP-3820629		1" - 18 UNS			
'	CYLINDER COMPONENTS	11-0020025					
OTV	1	DARTNO	CIZE	DECODIDATION			
6	LINERS Liner w/o Sealing Rings	PART NO. FP-3080760	SIZE	DESCRIPTION			
6	Liner w/Sealing Rings	FP-3803703					
6	Cylinder Kit Complete	FP-3803963					
6	Cylinder Kit Complete	FP-3800801		16.1:1 C.R.			
6	Cylinder Kit Complete	FP-3803964		16.6:1 C.R.			
6	Cylinder Kit Complete Cylinder Kit Complete	FP-3800800 FP-3803974		17.0:1 C.R. 18.1:1 C.R.			
6	Liner Kit w/o Piston	FP-3800800NP	310	Includes Liner, Ring Set, Piston Pin, Seal Ring, Retainers			
6	Sealing Ring, Liner	FP-3047188					
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION			
6	Piston Body w/o Pin	FP-3893751					
6	Piston Body w/o Pin	FP-3044448		16.1:1 C.R.			
6	Piston Body w/o Pin	FP-3068090		16.6:1 C.R.			
6	Piston Body w/o Pin Piston Body w/o Pin	FP-3055622 FP-3045907		17.0:1 C.R. 18.1:1 C.R.			
6	Piston W/Pin, Retainer, Rings	FP-3803962		10.1.1 0.11.			
6	Piston w/Pin, Retainer, Rings	FP-3803965		16.1:1 C.R.			
6	Piston w/Pin, Retainer, Rings	FP-3803968		16.6:1 C.R.			
6	Piston w/Pin, Retainer, Rings	FP-3803967		17.0:1 C.R.			
6	Piston w/Pin, Retainer, Rings Pin	FP-3803966 FP-4083243		18.1:1 C.R.			
6	Pin	FP-4083244					
12	Piston Pin Retainer	FP-3016652					
6	Piston Pin Set	FP-3800140		Includes Piston Pin FP-4083243 and Retainer FP-3016652			
6	Piston Pin Set	FP-3800256		Includes Piston Pin FP-4083244 and Retainer FP-3016652			
12	Pin Bushing Pin Bushing	FP-3027105 FP-3896894		Drilled Rod Non Drilled Rod			
	CONNECTING RODS &	11 0000004		Non Brillog Nog			
QTY	BRGS.	PART NO.	SIZE	DESCRIPTION			
1	Rod Set	FP-63016760PR		Contains (12) of FP3016760			
6	Rod Pair	FP-3016760PR	STD	Contains (2) of FP3016760			
12 12	Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower	FP-3016760 FP-3016761	STD 10				
12	Rod Bearing Half Upper/Lower	FP-3016762	20				
12	Rod Bearing Half Upper/Lower	FP-3016763	30				
	PISTON RINGS	PART NO.	SIZE	DESCRIPTION			
6	Ring Set Single Cylinder	FP-3803961	STD	Includes Top Ring, Comp Ring, Oil Ring			
	KITS						
	OVERHAUL KIT	PART NO.	SIZE				
1	In-Frame Overhaul Kit	FP-L10PREM		For engines w/outer dia. tab thrust washers; Premium; With Upper Gasket Set & Pan Gasket			
1	Complete Overhaul Kit	FP-L10PREMOH		For engines w/outer dia. tab thrust washers; Premium; With Front & Rear Seals and Upper & Lower Gasket Sets			
6	1 Off Highway Truck <b>QSM 10</b> . 10.8L 661 (10800cc) OHV Turbo-l	<b>.8 Engines.</b> <i>Wh</i> Diesel L6 (24 Valve	<i>eel Lo</i> ), 125m	pader QSM 10.8 Engines.			
	CYL. HEAD & PARTS						
QTY	GASKETS	PART NO.	SIZE	DESCRIPTION			
1	Head Set	FP-4089478		-			
	ENGINE BLOCK & PARTS						
QTY 1	GASKET SETS Gasket Conversion Set	PART NO. FP-4089998	SIZE	DESCRIPTION			
	CRANKSHAFT/OIL PUMP						
QTY	MAIN BEARINGS	PART NO.	SIZE	DESCRIPTION			
1	Main Set	FP-4025120		For engines w/outer dia. tab thrust washers			
1	Main Set	FP-4025121		For engines w/outer dia. tab thrust washers			
1	Main Set	FP-4025122	20				
1 1	Main Set Main Set	FP-4025123 FP-4025125	30 STD				
∟'_	1114111 001	4020120	טוט	1 To 200 1 Engo., 1 of originos witon pin design under washers			



Off Highway Truck QSM 10.8 Engines. Wheel Loader QSM 10.8 Engines. 61
10.8L 661 (10800cc) OHV Turbo-Diesel L6 (24 Valve), 125mm Bore (Cummins Eng.) (cont.)

	CRANKSHAFT/OIL PUMP (cont.)			
<b>QTY</b> 1 1 1	MAIN BEARINGS (cont.) Main Set Main Set Main Set	PART NO. FP-4025126 FP-4025127 FP-4025128	10 20 30	Pre-2004 Engs.; For engines w/roll pin design thrust washers Pre-2004 Engs.; For engines w/roll pin design thrust washers Pre-2004 Engs.; For engines w/roll pin design thrust washers
	CYLINDER COMPONENTS			
<b>QTY</b> 6 6 6	LINERS Liner w/o Sealing Rings Liner w/Sealing Rings Sealing Ring, Liner	PART NO. FP-3102423 FP-4089388 FP-3047188	SIZE STD STD	DESCRIPTION Incl. liner & sealing ring
QTY 12 12 12 12 12	CONNECTING RODS & BRGS.  Rod Bearing Half Upper/Lower	PART NO. FP-3016760 FP-3016761 FP-3016762 FP-3016763 FP-3016764	SIZE STD 10 20 30 40	DESCRIPTION

Wheel Tractor **62** 14.0L 855 OHV Turbo-Diesel L6, 5.5" Bore (Cummins Eng.)

		<u>.</u>		
	CYL. HEAD & PARTS			
QTY	GASKETS	PART NO.	SIZE	DESCRIPTION
3	Valve Cover Gasket	FP-3054841	·	Single valve cover gskt., 5-bolt Engs.; 3 req'd.
3	Rocker Housing Gasket	FP-3017750		Single rocker box gskt., 5-bolt Engs.; 3 req'd.
1	Head Gasket	FP-3040180		.010" O/S Head Gasket
1	Head Gasket	FP-4058790		Single head gskt., Standard thickness; Incl010" thick water
١.				grommets. 3 req'd.
1	Head Set	FP-3801348		Upper; .010 O/S Water Grommets; Upper set, SC & BC I, II, III, 5 bolt Engs.; w/ & w/o FFC
1	Head Set	FP-3804276		Upper; Contains standard size water grommets
1	Cam Follower Gasket	FP-3074401		855 Big Cam; .006008
1	Cam Follower Gasket	FP-3074402		855 Big Cam; .014020
1	Cam Follower Gasket	FP-3074403		855 Big Cam; .018025
1	Cam Follower Gasket	FP-3074404		855 Big Cam; .026036
1 1	Cam Follower Housing Gasket	FP-3074400		855 Big Cam; .014021
-	HEAD BOLTS	PART NO.	SIZE	
36	Head Bolt	FP-209700	SIZE	6 1/4"
				7 1/4"
36	Head Bolt	FP-3013623		
QTY	MISCELLANEOUS	PART NO.	SIZE	DESCRIPTION
1	Brass Water Tube	FP-CWB008		Brass
1	Fitting	FP-181213		90 Deg.
1	Insert, Water	FP-3823681		Threaded
OTY	FREEZE PLUGS	PART NO.	SIZE	DESCRIPTION
6	Expansion Plug	FP-216524	OILL	1 1/4" Dia. Cup
18	Expansion Plug	FP-213395		1" Dia. Cup
3	Expansion Plug	FP-213394		3/4" Dia. Cup
	1 0			'
	VALVE	PART NO.	SIZE	
12	Intake	FP-135957		1.8700" Head Dia., .4505" Stem Dia., 7.0660" O.A.L.
12	Exhaust	FP-3040830		
12	Exhaust Valve Kit	FP-3803519		Incl. (1)FP-3040830 Valve, (2)FP-127554 Keepers
12	Intake Valve Kit	FP-3803512		Incl. (1)FP-135957 Valve, (2)FP-127554 Keepers
24	Keeper	FP-127554		Exh. & Int.
OTY	VALVE SEAT	PART NO.	SIZE	DESCRIPTION
12	Exh. & Int.	FP-3017759	_	Check Cummins Service Topics 93T2-2; 2.0030" OD, 1.6900"
12	EXII. & IIII.	11-3017739	010	ID, .2795" Depth
QTY	VALVE GUIDE	PART NO.	SIZE	DESCRIPTION
12	Guide	FP-3006457		Exh. & Int.; Check Cummins Service Topics 93T2-2
12	Guide	FP-3006458		Exh. & Int.; Check Cummins Service Topics 93T2-2
12	Guide	FP-3006456		Exh. & Int.; Check Cummins Service Topics 93T2-2; .4530" ID,
	Galac			3.3900" O.A.L.
QTY	VALVE SPRING	PART NO.	SIZE	DESCRIPTION
12	Spring	FP-3081212		Exh. & Int.; Check Cummins Service Topics 93T2-2; w/One
				Green Stripe
12	Spring	FP-211999		Exh. & Int.; Check Cummins Service Topics 93T2-2; 2.6850"
				Free Height
12	Spring	FP-3035996 +		Exh. & Int.; 2.6350" Free Height; When depleted use FP-3081212
	وع	0000000 1		



62 (con	Wheel Tractor ht.) 14.0L 855 OHV Turbo-Diesel L6,	5.5" Bore (Cumm	nins Eng.)	
	CYL. HEAD & PARTS (cont.)	,	<u> </u>	
	VALVE SPRING (cont.)	PART NO.	SIZE	DESCRIPTION
12 12	Retainer Valve Spring Seat	FP-170296 FP-3042745		Exh. & Int. Exh. & Int.
$\vdash$	PUSH RODS	PART NO.	CITE	DESCRIPTION
6	Push Rod	FP-3046430	SIZE	855 Big Cam; Injector
12	Push Rod	FP-3046420		Exh. & Int.; 855 Big Cam; 17.7220" O.A.L.
	VALVE MISC.	PART NO.	SIZE	DESCRIPTION
12	Crosshead Valve Assembly	FP-3030038	0.75	Exh. & Int.; 855 Big Cam
Q I Y	VALVE SEAL Valve Stem Seal	<i>PART NO.</i> FP-156541	SIZE	DESCRIPTION Exh. & Int.; Installation requires valve guide machining;
				Polyacrylate
	ROCKER PARTS	PART NO.	SIZE	DESCRIPTION
3 12	Rocker Shaft Cam Follower Roller	FP-3038904 FP-3036933		855 Big Cam
6	Injector Cam Roller	FP-3036934		855 Big Cam
18	Adjusting Screw Nut	FP-S212		1/2" - 20 UNF; Use w/FP-168306
12 18	Valve Roller Pin Rocker Lever Adjusting Screw	FP-3013331 FP-168306		Exh. & Int.; 855 Big Cam 1/2" - 20 UNF x 2.045" Length; Use w/FP-S212
6	Rocker Shaft Plug	FP-3038903		For FP-3038904 shaft
6	Rocker Arm Socket	FP-194037		
6 6	Bushing Bushing	FP-218153 FP-118377		Injector Injector; Cam Follower
12	Bushing	FP-118378		Exh. & Int.; Valve; Cam Follower
12	Bushing	FP-140330		Exh. & Int.; Valve; Rocker Lever
6 18	Fuel Injector Roller Pin Valve Lock Pin	FP-3013330 FP-118939		855 Big Cam Injector and Valve; Cam Follower
	ENGINE BRAKE			,500.01 0.10 10.
	ENGINE BRAKE	PART NO.	SIZE	DESCRIPTION
1	Jake Brake Gasket Set	FP-PGJ10	0	Jake Brake gskt. set, 5-bolt Engs. 1 req'd.
	INT & EXH MANIFOLDS			
	INT. & EXH. MANIFOLDS	PART NO.	SIZE	DESCRIPTION
3	Intake Manifold Gasket	FP-3008591		Eng. w/Aftercooler
	CAMSHAFT GROUP TIMING	DART NO	CIZE	DESCRIPTION
1	Cam Gear	PART NO. FP-3002901	SIZE	DESCRIPTION
	CAMSHAFT/LIFTER	PART NO.	SIZE	
1	Camshaft	FP-3049024		Flangeless 2.500" camshaft; Replaces O.E. Nos. 3025518, 3049024, (cam only); or 3026975, 3801036 (camshaft w/pipe
4	Complet Thrust Weeker	ED 015000		plug).
1 3	Camshaft Thrust Washer Cam Follower Shaft	FP-215233 FP-3065125		
	ACCESSORY DRIVE			
	ACCESSORY DRIVE	PART NO.	SIZE	DESCRIPTION
1	Accessory Drive Repair Kit	FP-90004		
1 1	Wear Sleeve Oil Seal	FP-190397 FP-3004316		Front Cover
	FUEL SYSTEM & PARTS	5554010		
	FUEL INJECTION	PART NO.	SIZE	DESCRIPTION
6	Fuel Injector Sleeve	FP-3070486	JILL	Thin
6	Bolt	FP-70772		Fuel Crossover; Qty 2 Per Head; 1/4" - 20 X 1/2" Fillister machine screw
6	O-Ring	FP-131026		Fuel Crossover; Qty 2 Per Head
18	O-Ring	FP-193736		Fuel Injector Mounting; 3 per injector
6	O-Ring Fitting	FP-3007759 FP-181213		Injector Tube Seal Fuel Crossover; Qty A/R; 90 Deg.
6	Fuel Crossover Connection	FP-147100		Qty 2 Per Head
QTY	FUEL FILTERS & PUMP	PART NO.	SIZE	DESCRIPTION
1	Mechanical Fuel Pump	FP-3034243		
	COOLING SYSTEM			
	WATER PUMP Water Pump - Heavy Duty	PART NO. ED-3801708	SIZE	DESCRIPTION Vented; Multi-groove pulley
1 1	Water Pump - Heavy Duty Water Pump Repair/Rebuild Kit	FP-3801708 FP-3801712		w/Brg. & seal
$\Box$			nued on nex	



Wheel Tractor **62**14.0L 855 OHV Turbo-Diesel L6, 5.5" Bore (Cummins Eng.) (cont.)

			14.0L 85	5 OHV Turbo-Diesel L6, 5.5" Bore (Cummins Eng.) (cont.)
	COOLING SYSTEM (cont.)			
QTY 1 1 4 2 1 1 1	WATER PUMP (cont.) Water Pump Gasket O-Ring O-Ring V Belt Water Pump Idler Assembly Water Pump Connection Gasket	PART NO. FP-3002385 FP-43643A FP-70624 FP-212161 FP-217638 FP-3064919 FP-3024960	SIZE	DESCRIPTION Water pump mounting gskt. Front Water By-pass Water Manifold Coupling Water Transfer Tube Multi-Groove Multi-Groove
<b>QTY</b> 1 1	SEALS - FAN HUB Oil Seal Oil Seal	PART NO. FP-200307 FP-3027675	SIZE	DESCRIPTION Inner Outer
QTY 1 1 1 1 1 1 1	THERMOSTAT Thermostat Thermostat Thermostat Thermostat Thermostat Thermostat Gasket Water Outlet Gasket Rect. or Square Seal	PART NO. FP-146076 FP-204586 FP-135675 FP-3076489 FP-208128 FP-3019158 FP-186780	SIZE	DESCRIPTION 160 Deg. F 175 Deg. F 180 degree F, Vented 180 Deg. F, Non-Vented
QTY 1 1 1 6 1	MISCELLANEOUS Water Filter Valve Water Heater Valve Hose Ring - Seal Bypass Tube	PART NO. FP-179901 FP-157098 FP-102522 FP-3024709 FP-213485	SIZE	DESCRIPTION For 3/8" Pipe, 3/8" Heater Hose; 3/8 Pipe-3/8 Heater Hose For 3/8" Pipe, 5/8" Heater Hose; 3/8 Pipe-5/8 Heater Hose Water By-pass Hose Water Manifold Water By-pass Pipe
	ENGINE BLOCK & PARTS			
<b>QTY</b> 1 1	GASKETS Oil Pan Gasket Oil Pan Gasket Set	PART NO. FP-3349820 FP-PGC300	SIZE	DESCRIPTION 0.79mm / 0.031" Thick; One piece gskt. All 855 Engs.; Incl. 1 pc. oil pan gskt.; Includes Seals For Suction Tube & Drain Plug
<b>QTY</b> 1 1 1	GASKET SETS Gasket Conversion Set In-Frame Gasket Set In-Frame Gasket Set	PART NO. FP-3801235 FP-3804276IF FP-3801348S	SIZE	DESCRIPTION Lower Contains standard size water grommets In Frm.; Small Cam & Big Cam I, II, III, 5-bolt Engs.; O/S Grommets
<b>QTY</b> 1 1	CAM BEARINGS Cam Set Cam Set	PART NO. FP-3007689S FP-3801106	SIZE STD STD	
QTY 1 1 1 1 1 1 1	OIL COOLERS & FILTERS Aftercooler Core Assembly  Aftercooler Gasket Set Aftercooler Housing Gasket Aftercooler Gasket Oil Cooler	PART NO. FP-3411460 FP-PGC206 FP-216486 FP-3032348 FP-3412285	SIZE	DESCRIPTION For Big Cam III and Engs. up-dated to cross bolt mount, O.E. Nos. 3028997 & 3068724.  13.125" x 3.125" tube bundle. O.E. No's. 3018692, 3045483 &
1 1 1 1 1 1 4 2 1 1 1 1	Oil Cooler Oil Cooler Gasket Kit Oil Cooler Gasket O-Ring O-Ring O-Ring O-Ring Sealing Ring Grommet	FP-3412285  FP-3801199 FP-3008017 FP-3047464 FP-3047465 FP-3069014 FP-195952 FP-212161 FP-3030808 FP-3030808 FP-3045979 FP-3018695 FP-3034579		Aftercooler Core Seal Oil Cooler
QTY 1	DIPSTICK Dipstick	<i>PART NO.</i> FP-216484	SIZE	DESCRIPTION 90" Long; Blank Universal
-	MISCELLANEOUS Bolt Bushing Washer	PART NO. FP-204165 FP-132770 FP-200861	SIZE	DESCRIPTION NT-855; Flywheel; Snub Nose Crankshaft; 5/8" - 18 X 1 5/8" NT-855; Gear Cover; w/1.567" ID, 1.697" OD, 1.500" O.A.L. NT-855; Flywheel, Snub Nose Crankshaft



62 (cor		Diesel L6, 5.5" Bore (Cummi	ns Eng.)		
	CRANKSHAFT/OIL PUN	MP			
QTY	CRANKSHAFT	PART NO.	SIZE	DESCRIPTION	
1	Crankshaft	FP-3608833		w/Snub Nose Crankshaft; Snub Nose	
1	Vibration Damper	FP-217323		13.55" Dia.; Snub Nose	

1	Vibration Damper	FP-217323		13.55" Dia.; Snub Nose
6	Bolt	FP-204165		Vibration damper to crankshaft; 5/8" - 18 X 1 5/8"
1	Crank Gear	FP-3014614		Front; w/Snub Nose Crankshaft; 36 Teeth; 36 Teeth
QTY	SEALS - FRONT CRANK	PART NO.	SIZE	DESCRIPTION
1	Oil Seal	FP-3006736	·	Front; w/Snub Nose Crankshaft
1	Oil Seal	FP-3010457		Front; w/Tapered Nose Crankshaft
1	Redi-Sleeve	FP-3006742		Front; w/Snub Nose Crankshaft
-			CIZE	*
	SEALS - REAR CRANK	PART NO.	SIZE	DESCRIPTION  Description of Cool Chaft
1	Oil Seal Oil Seal	FP-3006737		Rear; Dry Applications; 6.00" Shaft
1	Redi-Sleeve	FP-3006738 FP-3006743		Rear; Wet Applications; Wet Clutch Rear; Wet Clutch; 6.00" Shaft
	MAIN BEARINGS	PART NO.		DESCRIPTION
1	Main Set	FP-3801260		W/Partial groove brgs.; Incl. thrust washers
1	Main Set	FP-3801261		W/Partial groove brgs.; Incl. thrust washers
1	Main Set	FP-3801262		W/Partial groove brgs.; Incl. thrust washers
1	Main Set	FP-3801263		W/Partial groove brgs.; Incl. thrust washers
1	Main Set	FP-3801264		W/Partial groove brgs.; Incl. thrust washers
4	Thrust Washer	FP-3067568	STD	Position 7
6	Bolt	FP-204165		Vibration damper to crankshaft; 5/8" - 18 X 1 5/8"
QTY	OIL PUMP	PART NO.	SIZE	DESCRIPTION
1	Oil Pump	FP-3821572		For Big Cam (2.500"dia.) Engs.
1	O-Ring O-Ring	FP-3029847		Oil suction tube seal
1	Oil Pump Gasket	FP-3067613		Oil pump body to block
1	Oil Suction Tube Gasket	FP-157551		
	CYLINDER COMPONENTS			
OTV		DARTNO	0175	DECODIDATION
	LINERS	PART NO.		DESCRIPTION
6	Liner w/o Sealing Rings	FP-3046325	20 CTD	Odel Lineare
6	Liner w/o Sealing Rings	FP-3055099		Std. Liners
6	Liner w/o Sealing Rings	FP-3065405	20	20/40 Oversize lower press-fit liner; Flange Dia. is .020" Larger than Std.; Flange thickess is .020"greater than Std.; Pilot Dia. is
				.040" larger than Std.
6	Liner w/Sealing Rings	FP-3801387	20	.020 UPF; 9170, 9180 Models; Incl. (1) FP215090 crevice seal,
	Liner w/ocaling rungs	11-0001007	20	(2) FP3032874 (Blk., middle & lower) sealing rings. Oversize,
				flange Press Fit dia020" larger & flange thickness .010"
				greater than Std. Replaces O.E. Nos. 3046325 & 3801387
				w/seals (referred to as '10/20 Size').
6	Liner w/Sealing Rings	FP-3803219	20	.020/.040 LPF; 9170, 9180 Models; Incl. (1) FP215090 crevice
	3 0			seal, (2) FP3032874 (Blk., middle & lower) sealing rings.
				Oversize, flange Press Fit dia020" larger than Std. & lower
				Press Fit is increased by .040". Replaces O.E. Nos. 3056405 &
				3803219 (referred to as '20/40 Size').
6	Liner w/Sealing Rings	FP-3801826	STD	Standard LPF; 9170, 9180 Models; Incl. (1) FP215090 crevice
				seal, (2) FP3032874 (Blk., middle & lower) sealing rings. Std.
				size, Lower Press Fit design. Replaces O.E. Nos. 3055099 &
	Culindor Kit Complet-	ED 2001700	CTD	3801826 w/seals.
6	Cylinder Kit Complete	FP-3801768	SID	14.5:1 C.R.; 9170 Models; Sled Runner Skirt; Premium Plus; 4
6	Cylinder Kit Completo	FP-3803213	20	Rings; Refer to CPL chart for CPL application data 14.5:1 C.R.; 9170 Models; Sled Runner Skirt; Premium Plus; 4
0	Cylinder Kit Complete	FF-30U3Z13	20	Rings; Refer to CPL chart for CPL application data
6	Cylinder Kit Complete	FP-3801771	STD	9180 Models; Sled Runner Skirt; Premium Plus; 4 Rings; Refer
	Symmetric Complete	117-3001771	310	to CPL chart for CPL application data
6	Cylinder Kit Complete	FP-3803214	20	9180 Models; Sled Runner Skirt; Premium Plus; 4 Rings; Refer
1	- 5,aor rat Gompioto	5555=17	20	to CPL chart for CPL application data
6	Cyl. Liner Sealing Ring Kit	FP-3800174		Incl. (1) FP-215090, (2) FP-3032874
6	Sealing Ring, Liner	FP-215090		Crevice Seal
6	Sealing Ring, Liner	FP-3032874		Middle & Lower Seal
1	Flange Shim	FP-SLG23773	3-5-10	.003" Thick, fits Std. & 10/20 sleeves
1	Flange Shim	FP-SLG23775		.005" Thick, fits Std. & 10/20 sleeves
1	Flange Shim	FP-3019956		.008" Thick, fits Std. & 10/20 sleeves
1	Flange Shim	FP-SLG237710		.010" Thick, fits Std. & 10/20 sleeves
1	Flange Shim	FP-3054948	20	.020" Thick, fits Std. & 10/20 sleeves
1	Repair Block Bushing	FP-RBL002		Lower Eng. block repair bushing
1	Repair Block Bushing	FP-RBU001		Upper Eng. block repair bushing, non-bored.
QTY	PISTONS	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-3051556		14.0:1 C.R.; 9180 Models; Sled Runner Skirt; Single NI-Resist; 4
	ĺ			Rings
				-





Wheel Tractor 62
14.0L 855 OHV Turbo-Diesel L6, 5.5" Bore (Cummins Eng.) (cont.)

			14.0L 03	55 Of the Turbu-Dieser Lo, 5.5 Dore (Currilling Ling.) (cont.)
	CYLINDER COMPONENTS (co	ont.)		
QTY	PISTONS (cont.)	PART NO.	SIZE	DESCRIPTION
6	Piston Body w/o Pin	FP-3051555		14.5:1 C.R.; 9170 Models; Sled Runner Skirt; Single NI-Resist; 4 Rings
6	Piston Kit w/Pin & Retainers	FP-3801773WP	STD	14.0:1 C.R.; 9180 Models; Single NI-Resist; 4 Rings; 14.0:1 C.R.
6	Piston Kit w/Pin & Retainers	FP-3801770WP	STD	14.5:1 C.R.; 9170 Models; Single NI-Resist; 4 Rings; 14.5:1 C.R.
6	Piston With Retainers	FP-3801773		14.0:1 C.R.; 9180 Models; Sled Runner Skirt; Single NI-Resist; 4 Rings; 14.0:1 C.R.
6	Piston With Retainers	FP-3801770		14.5:1 C.R.; 9170 Models; Sled Runner Skirt; Single NI-Resist; 4 Rings; 14.5:1 C.R.
6	Pin	FP-191970		
12	Piston Pin Retainer	FP-175755		2 per piston
6	Piston Cooling Nozzle	FP-3013591		
6	Pin Bushing	FP-187420		1 piece bushing; 1 piece bushing; 2.20" Width
6	Bushing	FP-116391		Accessory drive bushing; O.E. No. 116391
6	Bushing	FP-132770		Front cover bushing; O.E. No. 132770; w/1.567" ID, 1.697" OD, 1.500" O.A.L.
	CONNECTING RODS &			
	BRGS.	PART NO.	SIZE	DESCRIPTION
12	Con. Rod Bolt	FP-219153		
6	Rod Pair	FP-214950PR	STD	Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con.
				rod No. 218808; w/3.1240-3.1250" std. shaft size
6	Rod Pair	FP-214951PR	10	Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con.
				rod No. 218808; w/3.1240-3.1250" std. shaft size
6	Rod Pair	FP-214952PR	20	
				rod No. 218808; w/3.1240-3.1250" std. shaft size
12	Rod Bearing Half Upper/Lower	FP-214950	STD	Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con. rod No. 218808
12	Rod Bearing Half Upper/Lower	FP-214951	10	Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con. rod No. 218808
12	Rod Bearing Half Upper/Lower	FP-214952	20	Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con. rod No. 218808
12	Rod Bearing Half Upper/Lower	FP-214953	30	Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con. rod No. 218808
12	Rod Bearing Half Upper/Lower	FP-214954	40	Big Cam 2.500" dia.; Engs. w/1.741" length. brgs.; Used w/con. rod No. 218808
QTY	PISTON RINGS	PART NO.	SIZE	DESCRIPTION
6	Ring Set Single Cylinder	FP-4089811	STD	9170, 9180 Models
	KITS			
QTY	OVERHAUL KIT	PART NO.	SIZE	DESCRIPTION
1	In-Frame Overhaul Kit	FP-855PREMP	_	Premium Plus; 4 Rings
1	Complete Overhaul Kit	FP-855PREMPOH		Premium Plus; 4 Rings; With Front & Rear Seals and Upper & Lower Gasket Sets

# **Engine Kit Bill of Material**



Qty.	Part No.	Description	Qty.	Part No.	Description	Qty	. Part No.	Description	Qty	. Part No.	Description
/21	FP-IFKISB6		/21	FP-IFKISCQ		745	FP-IFK267E		7.0	FP-IFK336E	
(1) (1)	FP-3958165 FP-3959052	Oil Pan Gasket Oil Pan Gasket	٠,	FP-4089758 FP-4089958	Head Gasket Set Head Gasket Set	(4)	FP-A43177	Connecting Rod Bearing Pair	(4)	FP-A41902	Connecting Rod Bearing Pair
(6)	FP-PK0781	Piston w/Pin, Retainer &	('')			(1)	FP-7039M	Main Bearing Set	(4)	FP-A43173	Connecting Rod Bearing
(6)	FP-PK0782	Rings Piston w/Pin, Retainer &	(4)	FP-IFK188E	0.5.1.16.0.1.1	(1) (1)	FP-7039M10 FP-7039M20	Main Bearing Set Main Bearing Set	(4)	FP-A4317340	Pair Connecting Rod Bearing
(0)	11 -1 K0702	Rings	٠,	FP-A37769 FP-A46050	Cylinder Kit Complete Connecting Rod Bearing	(1)	FP-A62572S	Thrust Washer Set	. ,		Pair
(6)	FP-PK0783	Piston w/Pin, Retainer & Rings			Pair	(1)	FP-A62573S	Thrust Washer Set	(4)	FP-A43174	Connecting Rod Bearing Pair
(6)	FP-PK0784	Piston w/Pin, Retainer &	(4)	FP-A46052	Connecting Rod Bearing Pair	(1)	FP-PGE267EC	Complete Overhaul Gasket Set	(4)	FP-A43175	Connecting Rod Bearing
(6)	FP-PK0785	Rings Piston w/Pin, Retainer &	(4)	FP-A46053	Connecting Rod Bearing Pair		FP-IFK267L		(4)	FP-A43176	Pair Connecting Rod Bearing
		Rings	(4)	FP-A46054	Connecting Rod Bearing	(4)	FP-A1481351	Cylinder Kit Complete	, ,	ED 440477	Pair
(6)	FP-PK0838	Piston w/Pin, Retainer & Rings	(4)	FP-4397M	Pair Main Bearing Set	(4)	FP-A43173	Connecting Rod Bearing	(4)	FP-A43177	Connecting Rod Bearing Pair
(6)	FP-PK0839	Piston w/Pin, Retainer &	٠,	FP-4397M10	Main Bearing Set	(4)	FP-A43175	Pair Connecting Rod Bearing	(1)	FP-7039M	Main Bearing Set
(6)	FP-PK0840	Rings Piston w/Pin, Retainer &	٠,	FP-4397M20	Main Bearing Set		<b>FR</b> 4404 <b>F</b> 0	Pair	(1) (1)	FP-7039M10 FP-7039M20	Main Bearing Set Main Bearing Set
	ED DIVOCAL	Rings	(1) (1)	FP-4397M30 FP-PGE188EC	Main Bearing Set Complete Overhaul	(4)	FP-A43176	Connecting Rod Bearing Pair	(2)	FP-A62572	Thrust Washer Component
(6)	FP-PK0841	Piston w/Pin, Retainer & Rings	, ,	ED 4400504	Gasket Set	(4)	FP-A43177	Connecting Rod Bearing Pair	(2)	FP-A62573 FP-PGE336EC	Thrust Washer Component Complete Overhaul
(6)	FP-PK0842	Piston w/Pin, Retainer &	(1)	FP-A189524	Oil Pan Gasket Set	(1)	FP-7039M	Main Bearing Set	(.,		Gasket Set
(6)	FP-PK9183	Rings Piston w/Pin, Retainer &		FP-IFK188L		(1)	FP-7039M10	Main Bearing Set		FP-IFK336L	
	FP-PK9184	Rings	٠,	FP-A151995 FP-A46050	Cylinder Kit Complete Connecting Rod Bearing	(1) (1)	FP-7039M20 FP-A62572S	Main Bearing Set Thrust Washer Set	(4)	FP-A1521771	Cylinder Kit Complete
(6)	FP-PR9104	Piston w/Pin, Retainer & Rings	(4)	11-A40030	Pair	(1)	FP-A62573S	Thrust Washer Set	(4)	FP-A166134	Cylinder Kit Complete
(6)	FP-PK9185	Piston w/Pin, Retainer & Rings	(4)	FP-A46052	Connecting Rod Bearing Pair	(1)	PGE267LC	Complete Overhaul Gasket Set	(4) (4)	FP-CK51233638 FP-A41758	Cylinder Kit Complete Connecting Rod Bearing
(6)	FP-PK9186	Piston w/Pin, Retainer &	(4)	FP-A46053	Connecting Rod Bearing		ED IEKOOKE		. ,		Pair
(6)	ED DV02E0	Rings	(4)	FP-A46054	Pair Connecting Rod Bearing	(4)	FP-IFK301E	Culindar Kit Complete	(4)	FP-A41900	Connecting Rod Bearing Pair
(6)	FP-PK9259	Piston w/Pin, Retainer & Rings	, ,		Pair	(4) (4)	FP-A429951 FP-A43173	Cylinder Kit Complete Connecting Rod Bearing	(4)	FP-A41901	Connecting Rod Bearing Pair
(6)	FP-PK9260	Piston w/Pin, Retainer & Rings	٠,	FP-4397M FP-4397M10	Main Bearing Set Main Bearing Set	(4)	FP-A4317340	Pair Connecting Rod Bearing	(4)	FP-A41902	Connecting Rod Bearing
(6)	FP-PK9669	Piston w/Pin, Retainer &	٠,	FP-4397M20	Main Bearing Set	(4)	FF-A4317340	Pair	(4)	FP-A43173	Pair
(6)	FP-PK9670	Rings Piston w/Pin, Retainer &	٠,	FP-4397M30 FP-PGE207C	Main Bearing Set Complete Overhaul	(4)	FP-A43174	Connecting Rod Bearing Pair	(4)	FP-A43173	Connecting Rod Bearing Pair
(0)		Rings	(1)	FF-FGL207C	Gasket Set	(4)	FP-A43175	Connecting Rod Bearing	(4)	FP-A4317340	Connecting Rod Bearing Pair
(6)	FP-PK9671	Piston w/Pin, Retainer & Rings	(1)	FP-A189524	Oil Pan Gasket Set	(4)	FP-A43176	Pair Connecting Rod Bearing	(4)	FP-A43174	Connecting Rod Bearing
(12)	FP-3901171	Rod Bearing Half		FP-IFK207E		(+)		Pair	(4)	FP-A43175	Pair Connecting Rod Bearing
(12)	FP-3901172	Upper/Lower Rod Bearing Half	٠,	FP-A151991	Cylinder Kit Complete	(4)	FP-A43177	Connecting Rod Bearing Pair	(4)	11-440175	Pair
		Upper/Lower	(4)	FP-A50975	Connecting Rod Bearing Pair	(1)	FP-7039M	Main Bearing Set	(4)	FP-A43176	Connecting Rod Bearing Pair
(12)	FP-3901173	Rod Bearing Half Upper/Lower	(4)	FP-A50977	Connecting Rod Bearing	(1) (1)	FP-7039M10 FP-7039M20	Main Bearing Set Main Bearing Set	(4)	FP-A43177	Connecting Rod Bearing
(12)	FP-3901174	Rod Bearing Half	(4)	FP-A50978	Pair Connecting Rod Bearing	(2)	FP-A62572	Thrust Washer Component	(1)	FP-7039M	Pair Main Bearing Set
(12)	FP-3939859	Upper/Lower Rod Bearing Half		ED 450050	Pair	(2)	FP-A62573	Thrust Washer Component	(1)	FP-7039M10	Main Bearing Set
		Upper/Lower	(4)	FP-A50979	Connecting Rod Bearing Pair	(1)	FP-PGE301EC	Complete Overhaul Gasket Set	(1) (2)	FP-7039M20 FP-A62572	Main Bearing Set Thrust Washer Component
(6)	FP-3967060	Connecting Rod Bearing Pair		FP-4397M	Main Bearing Set	(1)	FP-A189510	Oil Pan Gasket Set	(2)	FP-A62573	Thrust Washer Component
(6)	FP-3967061	Connecting Rod Bearing Pair	٠,	FP-4397M10 FP-4397M20	Main Bearing Set Main Bearing Set		FP-IFK301L		(1)	FP-PGE336LC	Complete Overhaul Gasket Set
(6)	FP-3967062	Connecting Rod Bearing	(1)	FP-4397M30	Main Bearing Set	(4)	FP-A460221	Cylinder Kit Complete			
(6)	FP-3967063	Pair Connecting Rod Bearing	(1)	FP-PGE207C	Complete Overhaul Gasket Set	(4)	FP-A43173	Connecting Rod Bearing Pair	(0)	FP-IFK401E	Cylinder Kit Complete
(6)		Pair	(1)	FP-A189524	Oil Pan Gasket Set	(4)	FP-A4317340	Connecting Rod Bearing	(6) (6)	FP-A404791 FP-A418211	Cylinder Kit Complete  Cylinder Kit Complete
(6)	FP-3967064	Connecting Rod Bearing Pair		FP-IFK207L		(4)	FP-A43174	Pair Connecting Rod Bearing	(6)	FP-A43173	Connecting Rod Bearing
(1)	FP-3802070	Main Bearing Set	٠,	FP-A46382	Cylinder Kit Complete			Pair	(6)	FP-A43175	Pair Connecting Rod Bearing
(1) (1)	FP-3802071 FP-3802072	Main Bearing Set Main Bearing Set	(4)	FP-A50975	Connecting Rod Bearing Pair	(4)	FP-A43175	Connecting Rod Bearing Pair		FP-A43176	Pair
(1)	FP-3802073	Main Bearing Set	(4)	FP-A50977	Connecting Rod Bearing	(4)	FP-A43176	Connecting Rod Bearing Pair	(6)		Connecting Rod Bearing Pair
(1) (1)	FP-3802074 FP-4090035	Main Bearing Set Head Gasket Set	(4)	FP-A50978	Pair Connecting Rod Bearing	(4)	FP-A43177	Connecting Rod Bearing	(6)	FP-A43177	Connecting Rod Bearing Pair
(1)					Pair	(1)	FP-7039M	Pair Main Bearing Set	(1)	FP-7040M	Main Bearing Set
	FP-IFKISCO		(4)	FP-A50979	Connecting Rod Bearing Pair	(1)	FP-7039M10	Main Bearing Set	(1)	FP-7040M10 FP-7040M20	Main Bearing Set
(1) (6)	FP-3938160 FP-LK03208095	Oil Pan Gasket Cylinder Kit Complete		FP-4397M	Main Bearing Set	(1) (2)	FP-7039M20 FP-A62572	Main Bearing Set Thrust Washer Component	(1) (1)	FP-7040M20 FP-A62572S	Main Bearing Set Thrust Washer Set
(6)	FP-LK51908095	Cylinder Kit Complete	(1)	FP-4397M10 FP-4397M20	Main Bearing Set Main Bearing Set	(2)	FP-A62572 FP-A62573	Thrust Washer Component	(1)	FP-A62573S	Thrust Washer Set
(6) (6)	FP-3800319 FP-3800321	Cylinder Kit Complete Cylinder Kit Complete	(1)	FP-4397M30	Main Bearing Set	(1)	FP-PGE301LC	Complete Overhaul	(1)	FP-PGE401CK	Complete Overhaul Gasket Set
(12)	FP-3901430	Rod Bearing Half	(1)	FP-PGE207C	Complete Overhaul Gasket Set	(1)	FP-A189510	Gasket Set Oil Pan Gasket Set	(1)	FP-PGE401DM	Complete Overhaul Gasket Set
(12)	FP-3901431	Upper/Lower Rod Bearing Half	(1)	FP-A189524	Oil Pan Gasket Set	<u> </u>					Gaskei sei
. ,		Upper/Lower		FP-IFK267E		(4)	FP-IFK336E FP-A460251	Cylinder Kit Complete	***	FP-IFK401L	0.5 1.45 2.5
(12)	FP-3901432	Rod Bearing Half Upper/Lower	(4)	FP-A404791	Cylinder Kit Complete	(4)	FP-CK24852185	Cylinder Kit Complete	(6) (6)	FP-A1481351 FP-A43173	Cylinder Kit Complete Connecting Rod Bearing
(12)	FP-3901433	Rod Bearing Half	(4)	FP-A418211	Cylinder Kit Complete	(4) (4)	FP-CK61222185 FP-A41758	Cylinder Kit Complete Connecting Rod Bearing	, ,		Pair
(12)	FP-3901434	Upper/Lower Rod Bearing Half	(4)	FP-A43173	Connecting Rod Bearing Pair	(4)		Pair	(6)	FP-A43175	Connecting Rod Bearing Pair
. ,		Upper/Lower	(4)	FP-A43175	Connecting Rod Bearing	(4)	FP-A41900	Connecting Rod Bearing Pair	(6)	FP-A43176	Connecting Rod Bearing
(1) (1)	FP-3945917 FP-3945918	Main Bearing Set Main Bearing Set	(4)	FP-A43176	Pair Connecting Rod Bearing	(4)	FP-A41901	Connecting Rod Bearing	(6)	FP-A43177	Pair Connecting Rod Bearing
(1)	FP-3945919	Main Bearing Set	'		Pair			Pair	(5)	****	Pair
		(cont'd. next column)			(cont'd. next column)			(cont'd. next column)			(cont'd. next page)
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#### **Engine Kit Bill of Material**

ty.	Part No.	Description	Qty	. Part No.	Description	Qty	. Part No.	Description	Qty	. Part No.	Description
	FP-IFK401L	(cont'd )		FP-IFK504E	(cont'd )		FP-L10PRE	MOH (cont'd )		FP-OH6B59	TA (cont'd )
(1)	FP-7040M	Main Bearing Set	(2)	FP-A62573	Thrust Washer Component	(12)	FP-3016760	Rod Bearing Half	(12)	FP-3901173	Rod Bearing Half
(1)	FP-7040M10	Main Bearing Set	(1)	FP-PGE504EC	Complete Overhaul	( /		Upper/Lower	()		Upper/Lower
(1)	FP-7040M20	Main Bearing Set	. ,		Gasket Set	(12)	FP-3016761	Rod Bearing Half	(12)	FP-3901174	Rod Bearing Half
(1)	FP-A62572S	Thrust Washer Set						Upper/Lower			Upper/Lower
(1)	FP-A62573S	Thrust Washer Set		FP-IFK504L		(12)	FP-3016762	Rod Bearing Half	(12)	FP-3939859	Rod Bearing Half
(1)	FP-PGE401LC	Complete Overhaul	(6)	FP-A1521771	Cylinder Kit Complete	(10)	FP-3016763	Upper/Lower Rod Bearing Half	(1)	FP-3802070	Upper/Lower Main Bearing Set
		Gasket Set	(6)	FP-A166134	Cylinder Kit Complete	(12)	FF-3010703	Upper/Lower	(1)	FP-3802070 FP-3802071	Main Bearing Set
	FP-IFK451E		(6)	FP-CK51233638	Cylinder Kit Complete	(1)	FP-4025120	Main Bearing Set	(1)	FP-3802072	Main Bearing Set
(0)	_	0 11 1 161 0 1 1	(6)	FP-CK82353638	Cylinder Kit Complete	(1)	FP-4025121	Main Bearing Set	(1)	FP-3802073	Main Bearing Set
(6)	FP-A429951 FP-A43173	Cylinder Kit Complete	(6)	FP-A41758	Connecting Rod Bearing Pair	(1)	FP-4025122	Main Bearing Set	(1)	FP-3802074	Main Bearing Set
(6)	FP-A43173	Connecting Rod Bearing Pair	(6)	FP-A41900	Connecting Rod Bearing	(1)	FP-4025123	Main Bearing Set	(1)	FP-3802363S	In-Frame Gasket Set
(6)	FP-A4317340	Connecting Rod Bearing	(0)	FF-A41500	Pair	(1)	FP-4025125	Main Bearing Set	( · /		
(0)	11 41011010	Pair	(6)	FP-A41901	Connecting Rod Bearing	(1)	FP-4025126	Main Bearing Set		FP-PK12742	2
(6)	FP-A43174	Connecting Rod Bearing	. ,		Pair	(1)	FP-4025127	Main Bearing Set	(4)	FP-3906223WP	Piston Kit w/Pin &
		Pair	(6)	FP-A41902	Connecting Rod Bearing	(1)	FP-4025128	Main Bearing Set			Retainers
(6)	FP-A43175	Connecting Rod Bearing			Pair	(1)	FP-4025155	Head Gasket Set	(4)	FP-3802040	Ring Set, Single Cylind
(=)		Pair	(6)	FP-A43173	Connecting Rod Bearing	(1)	FP-4089478	Head Gasket Set		ED DI/4074	
(6)	FP-A43176	Connecting Rod Bearing	(0)	ED 44047040	Pair	(1)	FP-3803404	Conversion Gasket Set		FP-PK12742	
(C)	FP-A43177	Pair Connecting Rod Bearing	(6)	FP-A4317340	Connecting Rod Bearing Pair	(1)	FP-3882733PS	Oil Pan Gasket Set	(6)	FP-3906223WP	Piston Kit w/Pin &
(6)	1110mm-11	Pair	(6)	FP-A43174	Connecting Rod Bearing	(1)	FP-3803894	Oil Seal Kit	(0)	ED 2000042	Retainers
(6)	FP-5045M	Main Bearing Set	(0)		Pair	(1)	FP-3804304 ED-3804744	Oil Seal Kit	(6)	FP-3802040	Ring Set, Single Cylind
(1)	FP-5045M10	Main Bearing Set	(6)	FP-A43175	Connecting Rod Bearing	(1)	FP-3804744	Oil Seal Kit		FP-PK22742	ΣΔ
(1)	FP-5045M20	Main Bearing Set			Pair		FP-OHISCQ	SC	(1)	FP-PK22742A	Piston Kit w/Rings &
(1)	FP-5047M	Main Bearing Set	(6)	FP-A43176	Connecting Rod Bearing	(6)	FP-LK03208095	Cylinder Kit Complete	(1)	FF-FR22/42A	Bearings
(1)	FP-5047M10	Main Bearing Set	/=1	ED 4404==	Pair	(6)	FP-2800319	Cylinder Kit Complete	<u> </u>		30
(1)	FP-5047M20	Main Bearing Set	(6)	FP-A43177	Connecting Rod Bearing Pair	(6)	FP-3800319 FP-3800321	Cylinder Kit Complete		FP-PK22742	2B
(1)	FP-PGE451EC	Complete Overhaul	(1)	FP-5049M	Main Bearing Set	(12)	FP-3901430	Rod Bearing Half	(1)	FP-PK22742B	Piston Kit w/Rings &
		Gasket Set	(1)	FP-5049M10	Main Bearing Set	(12)	11 0001400	Upper/Lower	(.,		Bearings
(1)	FP-A189521	Oil Pan Gasket Set	(1)	FP-5049M20	Main Bearing Set	(12)	FP-3901431	Rod Bearing Half			
	ED IEVACAL		(1)	FP-5049M30	Main Bearing Set	. ,		Upper/Lower		FP-4B39PR	EM
	FP-IFK451L		(1)	FP-7040M	Main Bearing Set	(12)	FP-3901432	Rod Bearing Half	(4)	FP-3802030	Piston w/Retainer & Ri
(6)	FP-A1514081	Cylinder Kit Complete	(1)	FP-7040M10	Main Bearing Set			Upper/Lower	(4)	FP-3802032	Piston w/Retainer & Ri
6)	FP-A460221	Cylinder Kit Complete	(1)	FP-7040M20	Main Bearing Set	(12)	FP-3901433	Rod Bearing Half	(4)	FP-3802034	Piston w/Retainer & Ri
6)	FP-A43173	Connecting Rod Bearing Pair	(2)	FP-A62572	Thrust Washer Component	(40)	FP-3901434	Upper/Lower	(4)	FP-3802060	Piston w/Retainer & Ri
(6)	FP-A4317340	Connecting Rod Bearing	(2)	FP-A62573	Thrust Washer Component	(12)	FP-3901434	Rod Bearing Half Upper/Lower	(4)	FP-3802062	Piston w/Retainer & Ri
(0)	FF-A4317340	Pair	(1)	FP-PGE504LC	Complete Overhaul	(1)	FP-3945917	Main Bearing Set	(4)	FP-3802064	Piston w/Retainer & Ri
(6)	FP-A43174	Connecting Rod Bearing			Gasket Set	(1)	FP-3945918	Main Bearing Set	(4)	FP-3802100	Piston w/Retainer & Ri
(-)		Pair				(1)	FP-3945919	Main Bearing Set	(4)	FP-3802102	Piston w/Retainer & Ri
(6)	FP-A43175	Connecting Rod Bearing		FP-KST2684	A	(1)	FP-4089958	Head Gasket Set	(4)	FP-3802104	Piston w/Retainer & Ri
		Pair	(4)	FP-SL2684	Sleeve Assembly	(1)	FP-3800343	Conversion Gasket Set	(4)	FP-3802132	Piston w/Retainer & Ri
(6)	FP-A43176	Connecting Rod Bearing	(4)	FP-9320CPA	Connecting Rod Bearing	,			(4)	FP-3802134	Piston w/Retainer & Ri
(0)	ED 4404EE	Pair	(4)	ED 44541	Pair		FP-OH6B59	T	(4)	FP-3802160	Piston w/Retainer & Ri
(6)	FP-A43177	Connecting Rod Bearing	(1)	FP-4154M	Main Bearing Set	(6)	FP-3907163WP	Piston Kit w/Pin &	(4)	FP-3802170	Piston w/Retainer & Rin
/4\	FP-5045M	Pair Main Bearing Set	(1)	FP-2601339	Gasket Kit	(-)		Retainers	(4)	FP-3802172 FP-3802174	Piston w/Retainer & Ri
(1) (1)	FP-5045M10	Main Bearing Set		FP-KST2684	C	(6)	FP-3908815WP	Piston Kit w/Pin &	(4)	FP-3934048	Piston w/Retainer & Ri Piston Pin
(1)	FP-5045M20	Main Bearing Set	(4)		-			Retainers	(8)	FP-3934046 FP-3901171	Rod Bearing Half
(1)	FP-5047M	Main Bearing Set	(4)	FP-SL2684 FP-A46050	Sleeve Assembly Connecting Rod Bearing	(6)	FP-3908816WP	Piston Kit w/Pin &	(0)	11-0301171	Upper/Lower
(1)	FP-5047M10	Main Bearing Set	(4)	FP-A40000	Pair	(0)	ED 2000000	Retainers	(8)	FP-3901172	Rod Bearing Half
(1)	FP-5047M20	Main Bearing Set	(1)	FP-4149M	Main Bearing Set	(6)	FP-3802230	Ring Set, Single Cylinder	(-)		Upper/Lower
(1)	FP-PGE451LC	Complete Overhaul		FP-2601339	Gasket Kit	(6) (6)	FP-3802232	Ring Set, Single Cylinder			
` '		Gasket Set	(.)				ED-3803334	Ding Sot Single Cylinder	(8)	FP-3901173	Rod Bearing Half
	FP-A189521	Oil Pan Gasket Set				. ,	FP-3802234 FP-3901171	Ring Set, Single Cylinder	(8)		Upper/Lower
(1)		On I all additor out		FP-L10PRE	И	(12)	FP-3802234 FP-3901171	Rod Bearing Half	(8)	FP-3901173 FP-3901174	Upper/Lower Rod Bearing Half
(1)		on rain dacher cor	(1)	FP-L10PREN	✓I Oil Pan Gasket Set	(12)			(8)	FP-3901174	Upper/Lower Rod Bearing Half Upper/Lower
_	FP-IFK504E		(1) (1)	-		. ,	FP-3901171	Rod Bearing Half Upper/Lower			Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half
(6)	FP-A460251	Cylinder Kit Complete		FP-3882433PS	Oil Pan Gasket Set	(12)	FP-3901171	Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half	(8)	FP-3901174 FP-3939859	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower
(6) (6)	FP-A460251 FP-CK24852185	Cylinder Kit Complete Cylinder Kit Complete	(1)	FP-3882433PS FP-3882733PS	Oil Pan Gasket Set Oil Pan Gasket Set	(12) (12) (12)	FP-3901171 FP-3901172 FP-3901173	Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower	(8)	FP-3901174 FP-3939859 FP-3802010	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set
(6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete	(1)	FP-3882433PS FP-3882733PS FP-3800800	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete	(12)	FP-3901171 FP-3901172	Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half	(8) (8) (1) (1)	FP-3901174 FP-3939859	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set Main Bearing Set
(6) (6) (6)	FP-A460251 FP-CK24852185	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing	(1) (6) (6)	FP-3882433PS FP-3882733PS FP-3800800 FP-3800801	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half	(12) (12) (12) (12)	FP-3901171 FP-3901172 FP-3901173 FP-3901174	Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower	(8) (8) (1) (1) (1)	FP-3901174 FP-3939859 FP-3802010 FP-3802011	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set Main Bearing Set Main Bearing Set
(6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair	(1) (6) (6) (6) (6) (12)	FP-3882433PS FP-3882733PS FP-3800800 FP-3800801 FP-3803974 FP-3016760	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower	(12) (12) (12)	FP-3901171 FP-3901172 FP-3901173	Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half	(8) (8) (1) (1) (1) (1)	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set Main Bearing Set Main Bearing Set Main Bearing Set
(6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair Connecting Rod Bearing	(1) (6) (6) (6)	FP-3882433PS FP-3882733PS FP-3800800 FP-3800801 FP-3803974	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Rod Bearing Half	(12) (12) (12) (12) (12)	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3939859	Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower	(8) (8) (1) (1) (1)	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802013	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set Main Bearing Set Main Bearing Set
(6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758 FP-A41900	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair Connecting Rod Bearing Pair	(1) (6) (6) (6) (12) (12)	FP-3882433PS FP-3882733PS FP-3800800 FP-3800801 FP-3016760 FP-3016761	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower	(12) (12) (12) (12) (12) (12)	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3939859 FP-3802070	Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set	(8) (8) (1) (1) (1) (1) (1)	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802013 FP-3802014	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set
(6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair Connecting Rod Bearing	(1) (6) (6) (6) (6) (12)	FP-3882433PS FP-3882733PS FP-3800800 FP-3800801 FP-3803974 FP-3016760	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half	(12) (12) (12) (12) (12)	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3939859	Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set Main Bearing Set	(8) (8) (1) (1) (1) (1) (1)	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802013 FP-3802014	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set In-Frame Gasket Set
(6) (6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758 FP-A41900	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair Connecting Rod Bearing Pair Connecting Rod Bearing	(1) (6) (6) (6) (12) (12) (12)	FP-3882433PS FP-3882733PS FP-3800800 FP-3800801 FP-3803974 FP-3016760 FP-3016761 FP-3016762	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower	(12) (12) (12) (12) (12) (12) (1) (1)	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3939859 FP-3802070 FP-3802071 FP-3802072	Rod Bearing Half Upper/Lower Main Bearing Set Main Bearing Set Main Bearing Set	(8) (8) (1) (1) (1) (1) (1)	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802013 FP-3802014 FP-3804896S	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set Main Bearing Set Main Bearing Set Main Bearing Set Main Bearing Set In-Frame Gasket Set
(6) (6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758 FP-A41900 FP-A41901	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair Connecting Rod Bearing Pair Connecting Rod Bearing Pair	(1) (6) (6) (6) (12) (12)	FP-3882433PS FP-3882733PS FP-3800800 FP-3800801 FP-3016760 FP-3016761	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half	(12) (12) (12) (12) (12) (12) (1) (1) (1)	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3939859 FP-3802070 FP-3802071	Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set Main Bearing Set	(8) (8) (1) (1) (1) (1) (1) (1)	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802013 FP-3802014 FP-3804896S FP-4B39PR	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set In-Frame Gasket Set  EML Piston w/Retainer & Ri
(6) (6) (6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758 FP-A41900 FP-A41901	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair	(1) (6) (6) (6) (12) (12) (12)	FP-3882433PS FP-3882733PS FP-3800800 FP-3800801 FP-3803974 FP-3016760 FP-3016761 FP-3016762	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half	(12) (12) (12) (12) (12) (1) (1) (1) (1) (1)	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3939859 FP-3802070 FP-3802071 FP-3802072 FP-3802073	Rod Bearing Half Upper/Lower Main Bearing Set Main Bearing Set Main Bearing Set Main Bearing Set	(8) (8) (1) (1) (1) (1) (1) (1) (1)	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802013 FP-3802014 FP-3804896S FP-4B39PR FP-3802248	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set In-Frame Gasket Set  EML Piston w/Retainer & Ri Piston w/Retainer & Ri
(6) (6) (6) (6) (6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758 FP-A41900 FP-A41901 FP-A41902 FP-A43173	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair	(1) (6) (6) (6) (12) (12) (12) (12)	FP-3882433PS FP-3882733PS FP-3800800 FP-3800801 FP-3003974 FP-3016761 FP-3016762 FP-3016763	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower	(12) (12) (12) (12) (12) (1) (1) (1) (1) (1)	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3939859 FP-3802070 FP-3802071 FP-3802072 FP-3802073 FP-3802074 FP-3802363S	Rod Bearing Half Upper/Lower Main Bearing Set	(8) (8) (1) (1) (1) (1) (1) (1) (1) (4) (4)	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802014 FP-3804896S FP-4B39PR FP-3802248 FP-3802249 FP-3802250 FP-3802251	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set In-Frame Gasket Set  EML Piston w/Retainer & Ri Piston w/Retainer & Ri Piston w/Retainer & Ri
(6) (6) (6) (6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758 FP-A41900 FP-A41901 FP-A41902	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair	(1) (6) (6) (6) (12) (12) (12) (12) (12)	FP-3882433PS FP-3882733PS FP-3800800 FP-3800801 FP-3803974 FP-3016761 FP-3016762 FP-3016763 FP-4025120	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Main Bearing Set	(12) (12) (12) (12) (12) (1) (1) (1) (1) (1)	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3939859 FP-3802070 FP-3802071 FP-3802072 FP-3802073 FP-3802074	Rod Bearing Half Upper/Lower Main Bearing Set	(8) (8) (1) (1) (1) (1) (1) (1) (1) (4) (4) (4) (4)	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802013 FP-3802014 FP-3804896S FP-4B39PR FP-3802248 FP-3802249 FP-3802250	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set In-Frame Gasket Set  EML Piston w/Retainer & Ri Piston w/Retainer & Ri Piston w/Retainer & Ri
(6) (6) (6) (6) (6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758 FP-A41900 FP-A41901 FP-A41902 FP-A43173 FP-A4317340	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair	(1) (6) (6) (6) (12) (12) (12) (12) (12) (1) (1)	FP-3882433PS FP-3800800 FP-3800800 FP-3803974 FP-3016761 FP-3016762 FP-3016763 FP-4025120 FP-4025121	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Main Bearing Set Main Bearing Set	(12) (12) (12) (12) (12) (1) (1) (1) (1) (1)	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3939859 FP-3802070 FP-3802071 FP-3802072 FP-3802073 FP-3802074 FP-3802363S	Rod Bearing Half Upper/Lower Main Bearing Set	(8) (8) (1) (1) (1) (1) (1) (1) (1) (4) (4) (4) (4) (4)	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802014 FP-3804896S FP-4B39PR FP-3802248 FP-3802249 FP-3802251 FP-3802251 FP-3802252 FP-3802252 FP-3802253	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set Min-Frame Gasket Set  Fiston w/Retainer & Ri Piston w/Retainer & Ri Piston w/Retainer & Ri Piston w/Retainer & Ri
(6) (6) (6) (6) (6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758 FP-A41900 FP-A41901 FP-A41902 FP-A43173	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair	(1) (6) (6) (6) (12) (12) (12) (12) (12) (1) (1) (1) (1)	FP-3882433PS FP-3808200 FP-3800800 FP-3800897 FP-3016760 FP-3016761 FP-3016762 FP-3016763 FP-4025120 FP-4025121 FP-4025122	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Main Bearing Set Main Bearing Set Main Bearing Set	(12) (12) (12) (12) (12) (1) (1) (1) (1) (1) (1)	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3939859 FP-3802070 FP-3802071 FP-3802072 FP-3802074 FP-3802363S FP-OH6B59	Rod Bearing Half Upper/Lower Main Bearing Set In-Frame Gasket Set	(8) (8) (1) (1) (1) (1) (1) (1) (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	FP-3901174  FP-3939859  FP-3802010  FP-3802011  FP-3802012  FP-3802013  FP-3802014  FP-3804896S  FP-4B39PR  FP-3802248  FP-3802250  FP-3802251  FP-3802251  FP-3802253  FP-3802253  FP-3802487	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set In-Frame Gasket Set  EML Piston w/Retainer & Ri
(6) (6) (6) (6) (6) (6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758 FP-A41900 FP-A41901 FP-A41902 FP-A43173 FP-A4317340 FP-A43174	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair	(1) (6) (6) (6) (12) (12) (12) (12) (12) (1) (1) (1) (1) (1)	FP-3882433PS FP-3882733PS FP-3800800 FP-3800801 FP-3016760 FP-3016761 FP-3016762 FP-3016763 FP-4025120 FP-4025121 FP-4025122 FP-4025123	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Main Bearing Set Main Bearing Set Main Bearing Set Main Bearing Set	(12) (12) (12) (12) (12) (1) (1) (1) (1) (1) (1)	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3939859 FP-3802070 FP-3802071 FP-3802072 FP-3802074 FP-3802363S FP-OH6B59	Rod Bearing Half Upper/Lower Rod Bearing Set Main Bearing Set In-Frame Gasket Set  TA  Piston Kit w/Pin & Retainers Piston Kit w/Pin &	(8) (8) (1) (1) (1) (1) (1) (1) (1) (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802014 FP-3804896S FP-4B39PR FP-3802248 FP-3802249 FP-3802251 FP-3802251 FP-3802252 FP-3802252 FP-3802253	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set In-Frame Gasket Set  EML Piston w/Retainer & Ri
(6) (6) (6) (6) (6) (6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758 FP-A41900 FP-A41901 FP-A41902 FP-A43173 FP-A4317340	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair	(1) (6) (6) (6) (12) (12) (12) (12) (11) (1) (1) (1) (1) (1)	FP-3882433PS FP-3882733PS FP-3800800 FP-3800801 FP-300374 FP-3016761 FP-3016762 FP-3016763 FP-4025120 FP-4025121 FP-4025122 FP-4025123 FP-4025123 FP-4025125	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set	(12) (12) (12) (12) (12) (1) (1) (1) (1) (1) (1) (1)	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3939859 FP-3802070 FP-3802071 FP-3802072 FP-3802074 FP-3802363S FP-3907156WP FP-3907157WP	Rod Bearing Half Upper/Lower Main Bearing Set Ma	(8) (8) (1) (1) (1) (1) (1) (1) (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802014 FP-3804896S FP-4B39PR FP-3802248 FP-3802250 FP-3802251 FP-3802251 FP-3802252 FP-3802253 FP-3802253 FP-3802493 FP-3802493 FP-3802493 FP-3802495	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set Min-Frame Gasket Set  Fiston w/Retainer & Ri Piston w/Retainer & Ri
(6) (6) (6) (6) (6) (6) (6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758 FP-A41900 FP-A41901 FP-A41902 FP-A43173 FP-A4317340 FP-A43174 FP-A43175	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair	(1) (6) (6) (6) (12) (12) (12) (12) (12) (11) (1) (1) (1) (1) (1)	FP-3882433PS FP-3800800 FP-3800801 FP-3016760 FP-3016761 FP-3016762 FP-3016763 FP-4025120 FP-4025121 FP-4025122 FP-4025123 FP-4025125 FP-4025126 FP-4025127 FP-4025127 FP-4025127	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Rod Bearing Set Main Bearing Set	(12) (12) (12) (12) (12) (1) (1) (1) (1) (1) (1) (1)	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3939859 FP-3802070 FP-3802071 FP-3802072 FP-3802073 FP-3802074 FP-3802363S FP-OH6B59 FP-3907156WP	Rod Bearing Half Upper/Lower Main Bearing Set Ma	(8) (1) (1) (1) (1) (1) (1) (1) (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802013 FP-3802014 FP-3804896S FP-4B39PR FP-3802248 FP-3802250 FP-3802251 FP-3802252 FP-3802252 FP-3802253 FP-3802487 FP-3802495 FP-3802495 FP-3802562	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set Min Bearing Set Min Wiletainer & Ri Piston wi/Retainer & Ri
(6) (6) (6) (6) (6) (6) (6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758 FP-A41900 FP-A41901 FP-A41902 FP-A43173 FP-A4317340 FP-A43174	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair	(1) (6) (6) (6) (12) (12) (12) (12) (12) (1) (1) (1) (1) (1) (1) (1) (1)	FP-3882433PS FP-3800800 FP-3800800 FP-3800801 FP-3016760 FP-3016761 FP-3016762 FP-3016763 FP-4025120 FP-4025121 FP-4025125 FP-4025125 FP-4025125 FP-4025125 FP-4025126 FP-4025127	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Rod Bearing Set Main Bearing Set	(12) (12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3939859 FP-3802070 FP-3802071 FP-3802072 FP-3802074 FP-3802363S FP-OH6B59 FP-3907156WP FP-3907157WP FP-3907158WP	Rod Bearing Half Upper/Lower Rod Bearing Set Main Bearing Set In-Frame Gasket Set  TA  Piston Kit w/Pin & Retainers	(8) (1) (1) (1) (1) (1) (1) (1) (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802013 FP-3802014 FP-3804896S FP-4B39PR FP-3802248 FP-3802249 FP-3802252 FP-3802252 FP-3802253 FP-3802493 FP-3802493 FP-3802495 FP-3802495 FP-3802495 FP-3802495 FP-3802495 FP-3802495 FP-3802495 FP-3802495 FP-3802495 FP-3802562 FP-3802562	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set Min Bearing Set Min Wiletainer & Ri Piston wi/Retainer & Ri
(6) (6) (6) (6) (6) (6) (6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758 FP-A41900 FP-A41901 FP-A41902 FP-A43173 FP-A4317340 FP-A43174 FP-A43175	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair	(1) (6) (6) (6) (12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	FP-3882433PS FP-3800800 FP-3800801 FP-3016760 FP-3016761 FP-3016762 FP-3016763 FP-4025120 FP-4025121 FP-4025122 FP-4025123 FP-4025125 FP-4025126 FP-4025127 FP-4025127 FP-4025127	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Rod Bearing Set Main Bearing Set	(12) (12) (12) (12) (12) (1) (1) (1) (1) (1) (1) (1) (1) (6) (6) (6) (6)	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-39039859 FP-3802070 FP-3802071 FP-3802072 FP-3802074 FP-3802074 FP-3907156WP FP-3907157WP FP-3907158WP FP-3802230	Rod Bearing Half Upper/Lower Rod Bearing Set Main Bearing Set In-Frame Gasket Set  TA  Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Ring Set, Single Cylinder	(8) (8) (1) (1) (1) (1) (1) (1) (1) (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802013 FP-3802014 FP-3804896S FP-4B39PR FP-3802249 FP-3802250 FP-3802250 FP-3802251 FP-3802252 FP-3802253 FP-3802253 FP-3802497	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set Min-Frame Gasket Set  EML Piston w/Retainer & Ri
(6) (6) (6) (6) (6) (6) (6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758 FP-A41900 FP-A41901 FP-A41902 FP-A43173 FP-A4317340 FP-A43174 FP-A43175 FP-A43176	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair	(1) (6) (6) (6) (12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	FP-3882433PS FP-3800800 FP-3800800 FP-3800801 FP-3016760 FP-3016761 FP-3016762 FP-3016763 FP-4025120 FP-4025121 FP-4025125 FP-4025125 FP-4025125 FP-4025127 FP-4025127 FP-4025128 FP-4025128 FP-4025128 FP-4025128 FP-4089478	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Main Bearing Set Hain Bearing Set Head Gasket Set Head Gasket Set	(12) (12) (12) (12) (12) (13) (11) (11) (11) (11) (12) (13) (14) (15) (16) (17) (17) (17) (18) (19) (19) (19) (19) (19) (19) (19) (19	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3901174 FP-3902070 FP-3802071 FP-3802072 FP-3802074 FP-3802363S FP-3907156WP FP-3907157WP FP-3907158WP FP-3907230 FP-3802230 FP-3802232	Rod Bearing Half Upper/Lower Main Bearing Set Main Be	(8) (8) (1) (1) (1) (1) (1) (1) (1) (1) (2) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802014 FP-3804896S FP-4B39PR FP-3802249 FP-3802250 FP-3802251 FP-3802252 FP-3802252 FP-3802253 FP-3802493 FP-3802495 FP-3802565 FP-3802565 FP-3934047	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set In-Frame Gasket Set
(6) (6) (6) (6) (6) (6) (6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758 FP-A41900 FP-A41901 FP-A41902 FP-A43173 FP-A4317340 FP-A43174 FP-A43175 FP-A43176	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair	(1) (6) (6) (6) (12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	FP-3882433PS FP-3800800 FP-3800800 FP-3003974 FP-3016761 FP-3016762 FP-3016763 FP-4025120 FP-4025121 FP-4025122 FP-4025125 FP-4025125 FP-4025125 FP-4025125 FP-4025126 FP-4025127 FP-4025127 FP-4025128 FP-4025128 FP-4025128	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Main Bearing Set Hain Bearing Set Head Gasket Set Head Gasket Set	(12) (12) (12) (12) (12) (13) (11) (11) (11) (11) (13) (14) (15) (16) (16) (16) (16) (16) (16) (16) (16	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3901174 FP-3902070 FP-3802070 FP-3802072 FP-3802074 FP-3802363S FP-OH6B59 FP-3907156WP FP-3907157WP FP-3907158WP FP-3802230 FP-3802232 FP-3802234	Rod Bearing Half Upper/Lower Main Bearing Set Ma	(8) (8) (1) (1) (1) (1) (1) (1) (1) (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802013 FP-3802014 FP-3804896S FP-4B39PR FP-3802249 FP-3802250 FP-3802250 FP-3802251 FP-3802252 FP-3802253 FP-3802253 FP-3802497	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set Min-Frame Gasket Set  EML Piston w/Retainer & Ri Piston pin Rod Bearing Half
(6) (6) (6) (6) (6) (6) (6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758 FP-A41900 FP-A41902 FP-A43173 FP-A4317340 FP-A43174 FP-A43175 FP-A43176 FP-A43177	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair	(1) (6) (6) (6) (12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	FP-3882433PS FP-3800800 FP-3800800 FP-3800801 FP-3016760 FP-3016761 FP-3016762 FP-3016763 FP-4025120 FP-4025121 FP-4025125 FP-4025125 FP-4025125 FP-4025127 FP-4025127 FP-4025128 FP-4025128 FP-4025128 FP-4025128 FP-4089478	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Main Bearing Set Hain Bearing Set Head Gasket Set Head Gasket Set	(12) (12) (12) (12) (12) (13) (11) (11) (11) (11) (12) (13) (14) (15) (16) (17) (17) (17) (18) (19) (19) (19) (19) (19) (19) (19) (19	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3901174 FP-3902070 FP-3802071 FP-3802072 FP-3802074 FP-3802363S FP-3907156WP FP-3907157WP FP-3907158WP FP-3907230 FP-3802230 FP-3802232	Rod Bearing Half Upper/Lower Rod Bearing Set Main Bearing Set In-Frame Gasket Set  TA  Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Ring Set, Single Cylinder Rod Bearing Half	(8) (8) (1) (1) (1) (1) (1) (1) (1) (1) (2) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802013 FP-3802014 FP-3804896S FP-4B39PR FP-3802249 FP-3802251 FP-3802252 FP-3802252 FP-3802253 FP-3802495 FP-3802495 FP-3802495 FP-3802495 FP-3802497 FP-3802495 FP-3802562 FP-3802564 FP-3802565 FP-3934047 FP-3901171	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set Main Bearing Aet Piston w/Retainer & Ri Piston Pin Rod Bearing Half Upper/Lower
(6) (6) (6) (6) (6) (6) (6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758 FP-A41900 FP-A41902 FP-A43173 FP-A4317340 FP-A43174 FP-A43175 FP-A43176 FP-A43177 FP-A43177	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair	(1) (6) (6) (6) (12) (12) (12) (12) (13) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	FP-3882433PS FP-3800800 FP-3800801 FP-3003974 FP-3016760 FP-3016762 FP-3016763 FP-4025120 FP-4025121 FP-4025122 FP-4025125 FP-4025125 FP-4025125 FP-4025126 FP-4025126 FP-4025127 FP-4025128 FP-4025128 FP-4025155 FP-4089478	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Main Bearing Set Hain Bearing Set Head Gasket Set Head Gasket Set	(12) (12) (12) (12) (12) (13) (11) (11) (11) (11) (11) (12) (6) (6) (6) (6) (6) (6) (6) (6) (12)	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3939859 FP-3802070 FP-3802071 FP-3802073 FP-3802074 FP-3802074 FP-3907156WP FP-3907157WP FP-3907157WP FP-3802230 FP-3802230 FP-3802234 FP-3901171	Rod Bearing Half Upper/Lower Rod Bearing Set Main Bearing Set In-Frame Gasket Set  TA  Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Retainers Ring Set, Single Cylinder Rod Bearing Half Upper/Lower	(8) (8) (1) (1) (1) (1) (1) (1) (1) (1) (2) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802014 FP-3804896S FP-4B39PR FP-3802249 FP-3802250 FP-3802251 FP-3802252 FP-3802252 FP-3802253 FP-3802493 FP-3802495 FP-3802565 FP-3802565 FP-3934047	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set In-Frame Gasket Set  EML Piston w/Retainer & Rir Piston Pin Rod Bearing Half Upper/Lower Rod Bearing Half
(6) (6) (6) (6) (6) (6) (6) (6) (6) (6)	FP-A460251 FP-CK24852185 FP-CK61222185 FP-A41758 FP-A41900 FP-A41901 FP-A41902 FP-A43173 FP-A43174 FP-A43175 FP-A43176 FP-A43177 FP-A43177 FP-7040M FP-7040M10	Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Connecting Rod Bearing Pair Main Bearing Set Main Bearing Set	(1) (6) (6) (12) (12) (12) (12) (12) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	FP-3882433PS FP-3882733PS FP-3800800 FP-3800801 FP-3016760 FP-3016761 FP-3016762 FP-3016763 FP-4025120 FP-4025121 FP-4025121 FP-4025122 FP-4025125 FP-4025125 FP-4025126 FP-4025127 FP-4025127 FP-4025128 FP-4025155 FP-4089478 FP-L10PRENER PP-3800800	Oil Pan Gasket Set Oil Pan Gasket Set Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Cylinder Kit Complete Rod Bearing Half Upper/Lower Main Bearing Set Hain Bearing Set Head Gasket Set Head Gasket Set Head Gasket Set	(12) (12) (12) (12) (12) (13) (11) (11) (11) (11) (13) (14) (15) (16) (16) (16) (16) (16) (16) (16) (16	FP-3901171 FP-3901172 FP-3901173 FP-3901174 FP-3901174 FP-3902070 FP-3802070 FP-3802072 FP-3802074 FP-3802363S FP-OH6B59 FP-3907156WP FP-3907157WP FP-3907158WP FP-3802230 FP-3802232 FP-3802234	Rod Bearing Half Upper/Lower Rod Bearing Set Main Bearing Set In-Frame Gasket Set  TA  Piston Kit w/Pin & Retainers Piston Kit w/Pin & Retainers Ring Set, Single Cylinder Rod Bearing Half	(8) (8) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	FP-3901174 FP-3939859 FP-3802010 FP-3802011 FP-3802012 FP-3802013 FP-3802014 FP-3804896S FP-4B39PR FP-3802249 FP-3802251 FP-3802252 FP-3802252 FP-3802253 FP-3802495 FP-3802495 FP-3802495 FP-3802495 FP-3802497 FP-3802495 FP-3802562 FP-3802564 FP-3802565 FP-3934047 FP-3901171	Upper/Lower Rod Bearing Half Upper/Lower Rod Bearing Half Upper/Lower Main Bearing Set Min-Frame Gasket Set  EML  Piston w/Retainer & Rir Piston Pin Rod Bearing Half Upper/Lower

# **Engine Kit Bill of Material**



ty.	Part No.	Description	Qty.	Part No.	Description	Qty	. Part No.	Description	Qty	. Part No.	Description
	FP-4B39PR	EML (cont'd.)		FP-6B59PR	EM (cont'd.)		FP-6B59PR	EMOH (cont'd.)		FP-6C83PR	EMOH (cont'd.)
(8)	FP-3901173	Rod Bearing Half		FP-3802032	Piston w/Retainer & Rings	(6)	FP-3802172	Piston w/Retainer & Rings	(12)	FP-3901432	Rod Bearing Half
		Upper/Lower	(6)	FP-3802034	Piston w/Retainer & Rings	(6)	FP-3802174	Piston w/Retainer & Rings			Upper/Lower
(8)	FP-3901174	Rod Bearing Half	(6)	FP-3802060	Piston w/Retainer & Rings	(6)	FP-3802747	Piston w/Retainer & Rings	(12)	FP-3901433	Rod Bearing Half
(O)	ED 0000050	Upper/Lower	٠, /	FP-3802062	Piston w/Retainer & Rings	(6)	FP-3934048	Piston Pin	(40)	ED 0004404	Upper/Lower
(8)	FP-3939859	Rod Bearing Half Upper/Lower	٠,	FP-3802064	Piston w/Retainer & Rings	(12)	FP-3901171	Rod Bearing Half	(12)	FP-3901434	Rod Bearing Half Upper/Lower
1)	FP-3802010	Main Bearing Set	٠, /	FP-3802100	Piston w/Retainer & Rings	(40)	ED 2001170	Upper/Lower	(1)	FP-3802210	Main Bearing Set
1)	FP-3802011	Main Bearing Set	٠, /	FP-3802102	Piston w/Retainer & Rings	(12)	FP-3901172	Rod Bearing Half Upper/Lower	(1)	FP-3802211	Main Bearing Set
1)	FP-3802012	Main Bearing Set	(-)	FP-3802104 FP-3802132	Piston w/Retainer & Rings	(12)	FP-3901173	Rod Bearing Half	(1)	FP-3802212	Main Bearing Set
1)	FP-3802013	Main Bearing Set	(-)	FP-3802132 FP-3802134	Piston w/Retainer & Rings Piston w/Retainer & Rings	()		Upper/Lower	(1)	FP-3945917	Main Bearing Set
1)	FP-3802014	Main Bearing Set	. ,	FP-3802160	Piston w/Retainer & Rings	(12)	FP-3901174	Rod Bearing Half	(1)	FP-3945918	Main Bearing Set
1)	FP-3804896S	In-Frame Gasket Set	٠, /	FP-3802170	Piston w/Retainer & Rings			Upper/Lower	(1)	FP-3945919	Main Bearing Set
_				FP-3802170	Piston w/Retainer & Rings	(12)	FP-3939859	Rod Bearing Half	(1)	FP-4025271	Head Gasket Set
	FP-4B39PR	EMOH	(-)	FP-3802174	Piston w/Retainer & Rings	(1)		Upper/Lower	(1)	FP-3802389	Conversion Gasket Se
4)	FP-3802030	Piston w/Retainer & Rings	٠, /	FP-3802747	Piston w/Retainer & Rings	(1)	FP-3802070	Main Bearing Set			
1)	FP-3802032	Piston w/Retainer & Rings	. ,	FP-3934048	Piston Pin	(1)	FP-3802071 FP-3802072	Main Bearing Set		FP-855PRE	
1)	FP-3802034	Piston w/Retainer & Rings		FP-3901171	Rod Bearing Half	(1)	FP-3802072 FP-3802073	Main Bearing Set Main Bearing Set	(6)	FP-3801230	Cylinder Kit Complete
1)	FP-3802060	Piston w/Retainer & Rings			Upper/Lower	(1)	FP-3802363	Head Gasket Set	(6)	FP-3801232	Cylinder Kit Complete
1)	FP-3802062	Piston w/Retainer & Rings	(12)	FP-3901172	Rod Bearing Half	(1)	FP-3804897	Head Gasket Set	(6)	FP-3801765	Cylinder Kit Complete
1)	FP-3802064	Piston w/Retainer & Rings			Upper/Lower	(1)	FP-4089649	Head Gasket Set	(6)	FP-3801767	Cylinder Kit Complete
1)	FP-3802100	Piston w/Retainer & Rings	(12)	FP-3901173	Rod Bearing Half	(1)	FP-3802376	Conversion Gasket Set	(6)	FP-3801768	Cylinder Kit Complete
1)	FP-3802102 FP-3802104	Piston w/Retainer & Rings Piston w/Retainer & Rings	(12)	FP-3901174	Upper/Lower Rod Bearing Half	٠٠,			(6)	FP-3801769 EP-3801771	Cylinder Kit Complete
4) 4)	FP-3802104 FP-3802132	Piston w/Retainer & Rings Piston w/Retainer & Rings	(12)	0001174	Upper/Lower		FP-6C83PR	EM	(6) (6)	FP-3801771 FP-3801772	Cylinder Kit Complete Cylinder Kit Complete
+) 4)	FP-3802134	Piston w/Retainer & Rings	(12)	FP-3939859	Rod Bearing Half	(6)	FP-LK92477792	Cylinder Kit Complete	(6)	FP-3801772 FP-3801775	Cylinder Kit Complete
+)  -)	FP-3802160	Piston w/Retainer & Rings	` '		Upper/Lower	(6)	FP-LK92479937	Cylinder Kit Complete	(6)	FP-3801777	Cylinder Kit Complete
+) 1)	FP-3802170	Piston w/Retainer & Rings	(1)	FP-3802070	Main Bearing Set	(6)	FP-3802372	Cylinder Kit Complete	(6)	FP-3801778	Cylinder Kit Complete
1)	FP-3802172	Piston w/Retainer & Rings	١ ,	FP-3802071	Main Bearing Set	(6)	FP-3802388	Cylinder Kit Complete	(6)	FP-3801782	Cylinder Kit Complete
1)	FP-3802174	Piston w/Retainer & Rings	` '	FP-3802072	Main Bearing Set	(6)	FP-3802399	Cylinder Kit Complete	(6)	FP-3801783	Cylinder Kit Complete
4)	FP-3934048	Piston Pin	` '	FP-3802073	Main Bearing Set	(6)	FP-3802400	Cylinder Kit Complete	(6)	FP-3801796	Cylinder Kit Complete
3)	FP-3901171	Rod Bearing Half	` '	FP-3802363S	In-Frame Gasket Set	(6)	FP-3802401	Cylinder Kit Complete	(6)	FP-3801797	Cylinder Kit Complete
		Upper/Lower	(1)	FP-3804897S	In-Frame Gasket Set	(6)	FP-3802402	Cylinder Kit Complete	(6)	FP-3801798	Cylinder Kit Complete
3)	FP-3901172	Rod Bearing Half		FP-6B59PR	ЕМІ	(6)	FP-3802403	Cylinder Kit Complete	(6)	FP-3801811	Cylinder Kit Complete
	ED 00011E0	Upper/Lower				(6)	FP-3802404	Cylinder Kit Complete	(6)	FP-3801873	Cylinder Kit Complete
3)	FP-3901173	Rod Bearing Half Upper/Lower	٠,	FP-3802248	Piston w/Retainer & Rings	(6)	FP-3802406	Cylinder Kit Complete	(6)	FP-3801875	Cylinder Kit Complete
3)	FP-3901174	Rod Bearing Half	٠, /	FP-3802249	Piston w/Retainer & Rings	(6)	FP-3802609	Cylinder Kit Complete	(6)	FP-3801920	Cylinder Kit Complete
)	FF-3901174	Upper/Lower	٠, /	FP-3802250 FP-3802251	Piston w/Retainer & Rings	(6)	FP-3802610 FP-3802743	Cylinder Kit Complete	(6)	FP-3803209	Cylinder Kit Complete
3)	FP-3939859	Rod Bearing Half	٠, /	FP-3802252	Piston w/Retainer & Rings Piston w/Retainer & Rings	(6) (6)	FP-3802811	Cylinder Kit Complete Cylinder Kit Complete	(6)	FP-3803210	Cylinder Kit Complete
_		Upper/Lower	. ,	FP-3802253	Piston w/Retainer & Rings	(6)	FP-3934588	Cylinder Kit Complete	(6)	FP-3803211	Cylinder Kit Complete
1)	FP-3802010	Main Bearing Set	. ,	FP-3802487	Piston w/Retainer & Rings	(6)	FP-4020061	Cylinder Kit Complete	(6)	FP-3803212	Cylinder Kit Complete
1)	FP-3802011	Main Bearing Set	٠, /	FP-3802489	Piston w/Retainer & Rings	(6)	FP-4020062	Cylinder Kit Complete	(6)	FP-3803213	Cylinder Kit Complete
1)	FP-3802012	Main Bearing Set	. ,	FP-3802490	Piston w/Retainer & Rings	(12)	FP-3901430	Rod Bearing Half	(6) (6)	FP-3803214 FP-3803221	Cylinder Kit Complete Cylinder Kit Complete
,	FP-3802013	Main Bearing Set	. ,	FP-3802493	Piston w/Retainer & Rings	(/		Upper/Lower	(6)	FP-3803223	Cylinder Kit Complete
1)	FP-3802014	Main Bearing Set	(6)	FP-3802495	Piston w/Retainer & Rings	(12)	FP-3901431	Rod Bearing Half	(6)	FP-3803226	Cylinder Kit Complete
1)	FP-3804896	Head Gasket Set	(6)	FP-3802561	Piston w/Retainer & Rings			Upper/Lower	(6)	FP-3803228	Cylinder Kit Complete
1)	FP-3802375	Conversion Gasket Set	(6)	FP-3802562	Piston w/Retainer & Rings	(12)	FP-3901432	Rod Bearing Half	(12)	FP-203660	Rod Bearing Half
	FP-4B39PR	EMOHI	(6)	FP-3802563	Piston w/Retainer & Rings	(10)	FP-3901433	Upper/Lower Rod Bearing Half	. ,		Upper/Lower
4)	FP-3802248	-	٠, /	FP-3802564	Piston w/Retainer & Rings	(12)	FF-3901433	Upper/Lower	(12)	FP-203661	Rod Bearing Half
4) 4)	FP-3802249	Piston w/Retainer & Rings Piston w/Retainer & Rings	٠,	FP-3802565	Piston w/Retainer & Rings	(12)	FP-3901434	Rod Bearing Half			Upper/Lower
	FP-3802250	Piston w/Retainer & Rings	٠, /	FP-3802747	Piston w/Retainer & Rings	( /		Upper/Lower	(12)	FP-203662	Rod Bearing Half
+) 1)	FP-3802251	Piston w/Retainer & Rings		FP-3934047	Piston Pin	(1)	FP-3802210	Main Bearing Set	(10)	FP-203663	Upper/Lower
4)	FP-3802252	Piston w/Retainer & Rings	(12)	FP-3901171	Rod Bearing Half Upper/Lower	(1)	FP-3802211	Main Bearing Set	(12)	FP*203003	Rod Bearing Half Upper/Lower
4)	FP-3802253	Piston w/Retainer & Rings	(12)	FP-3901172	Rod Bearing Half	(1)	FP-3802212	Main Bearing Set	(12)	FP-203664	Rod Bearing Half
	FP-3802487	Piston w/Retainer & Rings	(12)	00011/2	Upper/Lower	(1)	FP-3945917	Main Bearing Set	(,		Upper/Lower
1)	FP-3802493	Piston w/Retainer & Rings	(12)	FP-3901173	Rod Bearing Half	(1)	FP-3945918	Main Bearing Set	(12)	FP-214950	Rod Bearing Half
4)	FP-3802495	Piston w/Retainer & Rings	` ′		Upper/Lower	(1)	FP-3945919	Main Bearing Set	, ,		Upper/Lower
	FP-3802562	Piston w/Retainer & Rings	(12)	FP-3901174	Rod Bearing Half	(1)	FP-4025271S	In-Frame Gasket Set	(12)	FP-214951	Rod Bearing Half
1)	FP-3802564	Piston w/Retainer & Rings	l		Upper/Lower		ED 6C02DD	EMOL	(40)	ED 044050	Upper/Lower
1)	FP-3802565	Piston w/Retainer & Rings	(12)	FP-3939859	Rod Bearing Half	/61	FP-6C83PR	-	(12)	FP-214952	Rod Bearing Half Upper/Lower
1)	FP-3802747	Piston w/Retainer & Rings	(4)	ED-2002070	Upper/Lower	(6)	FP-LK92477792	Cylinder Kit Complete	(12)	FP-214953	Rod Bearing Half
1)	FP-3934047	Piston Pin	' '	FP-3802070 ED-3802071	Main Bearing Set	(6)	FP-LK92479937	Cylinder Kit Complete	(12)	11-214333	Upper/Lower
3)	FP-3901171	Rod Bearing Half	` '	FP-3802071 FP-3802072	Main Bearing Set Main Bearing Set	(6)	FP-3802372 FP-3802388	Cylinder Kit Complete	(12)	FP-214954	Rod Bearing Half
٥١	ED 2001172	Upper/Lower	. ,	FP-3802072 FP-3802073	Main Bearing Set  Main Bearing Set	(6)	FP-3802388 FP-3802399	Cylinder Kit Complete	( /		Upper/Lower
3)	FP-3901172	Rod Bearing Half Upper/Lower	' '	FP-3802363S	In-Frame Gasket Set	(6) (6)	FP-3802399 FP-3802400	Cylinder Kit Complete Cylinder Kit Complete	(1)	FP-3801260	Main Bearing Set
3)	FP-3901173	Rod Bearing Half		FP-3804897S	In-Frame Gasket Set	(6)	FP-3802401	Cylinder Kit Complete  Cylinder Kit Complete	(1)	FP-3801261	Main Bearing Set
′		Upper/Lower	L ,	<del>-</del>		(6)	FP-3802402	Cylinder Kit Complete	(1)	FP-3801262	Main Bearing Set
3)	FP-3901174	Rod Bearing Half	1	FP-6B59PR	EMOH	(6)	FP-3802403	Cylinder Kit Complete	(1)	FP-3801263	Main Bearing Set
		Upper/Lower		FP-3802030	Piston w/Retainer & Rings	(6)	FP-3802404	Cylinder Kit Complete	(1)	FP-3801264	Main Bearing Set
3)	FP-3939859	Rod Bearing Half	٠,	FP-3802032	Piston w/Retainer & Rings	(6)	FP-3802406	Cylinder Kit Complete	(1)	FP-3801332S	In-Frame Gasket Set
	ED 0000015	Upper/Lower	. ,	FP-3802034	Piston w/Retainer & Rings	(6)	FP-3802609	Cylinder Kit Complete	(1)	FP-3801348S	In-Frame Gasket Set
1)	FP-3802010	Main Bearing Set		FP-3802060	Piston w/Retainer & Rings	(6)	FP-3802610	Cylinder Kit Complete	(1)	FP-3801451S	In-Frame Gasket Set
1)	FP-3802011	Main Bearing Set	. ,	FP-3802062	Piston w/Retainer & Rings	(6)	FP-3802743	Cylinder Kit Complete	(1)	FP-3801754S	In-Frame Gasket Set
1)	FP-3802012	Main Bearing Set		FP-3802064	Piston w/Retainer & Rings	(6)	FP-3802811	Cylinder Kit Complete	(1)	FP-3803040S	In-Frame Gasket Set
1)	FP-3802013 FP-3802014	Main Bearing Set	٠,	FP-3802100	Piston w/Retainer & Rings	(6)	FP-3934588	Cylinder Kit Complete	(1)	FP-3804276IF	In-Frame Gasket Set
1)	FP-3802014 FP-3804896	Main Bearing Set	. ,	FP-3802102	Piston w/Retainer & Rings	(6)	FP-4020061	Cylinder Kit Complete		FP-855PRE	мрон ———
1)	FP-3804896 FP-3802375	Head Gasket Set Conversion Gasket Set		FP-3802104	Piston w/Retainer & Rings	(6)	FP-4020062	Cylinder Kit Complete	(6)	FP-3801230	Cylinder Kit Complete
1۱	11-30023/3	CONVENSION CLASKEL SEL	` ′	FP-3802132	Piston w/Retainer & Rings	(12)	FP-3901430	Rod Bearing Half	(6)	FP-3801230 FP-3801232	Cylinder Kit Complete
1)			. (0)	FP-3802134	Piston w/Retainer & Rings	1		Upper/Lower	(0)		
1)	FP-6B59PR	EM	٠,			(40)	ED 2004 424	Dod Dooring Half	(6)	FP-3801765	Cylinder Kit Complete
	FP-6B59PR FP-3802030	EM Piston w/Retainer & Rings	(6)	FP-3802160 FP-3802170	Piston w/Retainer & Rings Piston w/Retainer & Rings	(12)	FP-3901431	Rod Bearing Half Upper/Lower	(6) (6)	FP-3801765 FP-3801767	Cylinder Kit Complete Cylinder Kit Complete





Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description	Qty.	Part No.	Description
	FP-855PREI	MPOH (cont'd.)			EM-OHL (cont'd.)						
(6)	FP-3801768	Cylinder Kit Complete		FP-3802564	Piston w/Retainer & Rings						
(6)	FP-3801769	Cylinder Kit Complete	. ,	FP-3802565	Piston w/Retainer & Rings						
(6)	FP-3801771	Cylinder Kit Complete	( - /	FP-3802747	Piston w/Retainer & Rings						
(6)	FP-3801772	Cylinder Kit Complete		FP-3934047	Piston Pin						
(6)	FP-3801775	Cylinder Kit Complete	(12)	FP-3901171	Rod Bearing Half						
(6)	FP-3801777	Cylinder Kit Complete	(10)	ED 2001172	Upper/Lower						
(6)	FP-3801778	Cylinder Kit Complete	(12)	FP-3901172	Rod Bearing Half Upper/Lower						
(6)	FP-3801782	Cylinder Kit Complete	(12)	FP-3901173	Rod Bearing Half						
(6)	FP-3801783	Cylinder Kit Complete	()		Upper/Lower						
(6) (6)	FP-3801796 FP-3801797	Cylinder Kit Complete Cylinder Kit Complete	(12)	FP-3901174	Rod Bearing Half						
(6)	FP-3801798	Cylinder Kit Complete			Upper/Lower						
(6)	FP-3801811	Cylinder Kit Complete	(12)	FP-3939859	Rod Bearing Half						
(6)	FP-3801873	Cylinder Kit Complete	(4)	ED 0000000	Upper/Lower						
(6)	FP-3801875	Cylinder Kit Complete		FP-3802070	Main Bearing Set						
(6)	FP-3801920	Cylinder Kit Complete		FP-3802071 FP-3802072	Main Bearing Set Main Bearing Set						
(6)	FP-3803209	Cylinder Kit Complete		FP-3802073	Main Bearing Set						
(6)	FP-3803210	Cylinder Kit Complete	` '	FP-3802363	Head Gasket Set						
(6)	FP-3803211	Cylinder Kit Complete		FP-3804897	Head Gasket Set						
(6)	FP-3803212	Cylinder Kit Complete		FP-4089649	Head Gasket Set						
(6)	FP-3803213	Cylinder Kit Complete	. ,	FP-3802376	Conversion Gasket Set						
(6)	FP-3803214	Cylinder Kit Complete	. ,			4					
(6)	FP-3803221	Cylinder Kit Complete		PK1-2742							
(6)	FP-3803223	Cylinder Kit Complete	(4)	FP-3906223WP	Piston Kit w/Pin &						
(6)	FP-3803226	Cylinder Kit Complete	. ,		Retainers						
(6)	FP-3803228 FP-203660	Cylinder Kit Complete	(4)	FP-3802040	Ring Set, Single Cylinder						
(12)	FF-203000	Rod Bearing Half Upper/Lower		DI/4 0740		1					
(12)	FP-203661	Rod Bearing Half		PK1-2743							
(/		Upper/Lower	. ,	2743PN	Cast Piston						
(12)	FP-203662	Rod Bearing Half	(4)	E-623KC	Premium Piston Ring Set						
		Upper/Lower		PK1-2744							
(12)	FP-203663	Rod Bearing Half			Coat Distan						
(10)	ED 000664	Upper/Lower		2744PN E-623KC	Cast Piston Premium Piston Ring Set						
(12)	FP-203664	Rod Bearing Half Upper/Lower	(4)	L-02010	Tremium riston riing oet	1					
(12)	FP-214950	Rod Bearing Half		PK2-2742A							
` '		Upper/Lower		4205CP	Connecting Rod Bearing						
(12)	FP-214951	Rod Bearing Half	. ,		Pair						
		Upper/Lower	(1)	FP-3802010	Main Bearing Set						
(12)	FP-214952	Rod Bearing Half	(4)	FP-3906223WP	Piston Kit w/Pin &						
(10)	ED 2140E2	Upper/Lower			Retainers						
(12)	FP-214953	Rod Bearing Half Upper/Lower	(4)	FP-3802040	Ring Set, Single Cylinder						
(12)	FP-214954	Rod Bearing Half		PK2-2743A							
` '		Upper/Lower			Coat Distan						
(1)	FP-3801260	Main Bearing Set		2743PN	Cast Piston Premium Piston Ring Set						
(1)	FP-3801261	Main Bearing Set		E-623KC 4205CP	Connecting Rod Bearing						
(1)	FP-3801262	Main Bearing Set	(4)	420301	Pair						
(1)	FP-3801263	Main Bearing Set	(1)	FP-3802010	Main Bearing Set						
(1)	FP-3801264	Main Bearing Set				-					
(1)	FP-3801332 FP-3801348	Head Gasket Set Head Gasket Set		PK2-2744A							
(1) (1)	FP-3801451	Head Gasket Set	(4)	2744PN	Cast Piston						
(1)	FP-380145110	Head Gasket Set		E-623KC	Premium Piston Ring Set						
(1)	FP-3801754	Head Gasket Set	(4)	4205CP	Connecting Rod Bearing						
(1)	FP-380175410	Head Gasket Set	/41	ED-2002010	Pair Main Boaring Sot				1		
(1)	FP-3803040	Head Gasket Set	(1)	FP-3802010	Main Bearing Set	]					
(1)	FP-380304010	Head Gasket Set							1		
(1)	FP-3804276	Head Gasket Set							1		
(1)	FP-3014459	Conversion Gasket Set	1								
(1)	FP-3801235	Conversion Gasket Set							1		
(1)	FP-3801454	Conversion Gasket Set	1								
(1)	FP-3801463	Conversion Gasket Set									
(1)	FP-3801464	Conversion Gasket Set							1		
(1)	FP-3801468 FP-3801469	Conversion Gasket Set Conversion Gasket Set									
(1)											
(1)	FP-3801529	Conversion Gasket Set Conversion Gasket Set									
(1)	FP-3803041	Conversion dasket Set									
	FP6B5.9PRI	EM-OHL							1		
(6)	FP-3802248	Piston w/Retainer & Rings	1								
(6)	FP-3802249	Piston w/Retainer & Rings									
(6)	FP-3802250	Piston w/Retainer & Rings							1		
(6)	FP-3802251	Piston w/Retainer & Rings	1								
(6)	FP-3802252	Piston w/Retainer & Rings							1		
(6)	FP-3802253	Piston w/Retainer & Rings	1								
(6)	FP-3802487	Piston w/Retainer & Rings									
(6)	FP-3802489	Piston w/Retainer & Rings							1		
(6)	FP-3802490	Piston w/Retainer & Rings	1								
(0)	FP-3802493	Piston w/Retainer & Rings							1		
(6)		Distance (Distance & Disease				1			ı		
(6)	FP-3802495	Piston w/Retainer & Rings									
	FP-3802495 FP-3802562	Piston w/Retainer & Rings Piston w/Retainer & Rings									

#### **Numerical List**



Numerio	sai List				▼ /DIESEL®
Part		Part		Part	
No. L	ine No.	No. L	ine No.	No. L	ine No.
AT-2084 AT-2084B BRP-3194 CS-380 CS-645 E-178K E-178K E-196K FP-AR73308 FP-A11101WP FP-A11801 FP-A11802 FP-A11803 FP-A136474 FP-A136474WS FP-A136474WS FP-A136474WS FP-A138235WP FP-A1406607	CAS 32, 51	FP-A41900 FP-A41901 FP-A41907 FP-A41967 FP-A42988 FP-A42988 FP-A42995 FP-A42996 FP-A43009 FP-A43009WS FP-A43028 FP-A43173 FP-A43173 FP-A43173	CAS 41, 42, 56, 57 CAS 41, 42, 56, 57 CAS 41, 42, 56, 57 CAS 31, 42, 56, 57 CAS 32, 51, 52 CAS 32, 51, 52 CAS 41, 56 CAS 41, 56 CAS 39, 54 CAS 39, 54 CAS 39, 54 CAS 39, 54 CAS 22 CAS 22 CAS 22 CAS 22 CAS 22 CAS 22 CAS 29, 32, 36, 38, 39, 41, 42, 48-52, 54-57 CAS 39, 41, 42, 54-57 CAS 28, 29, 32, 36, 38, 39, 41, 42, 48-52, 54-57 CAS 28, 29, 32, 36, 38, 39, 41, 42, 48-52, 54-57 CAS 28, 29, 32, 36, 38, 39, 41, 42, 48-52, 54-57 CAS 28, 29, 32, 36, 38, 39, 41, 42, 48-52, 54-57 CAS 28, 29, 32, 36, 38, 39, 41, 42, 48-52, 54-57 CAS 28, 29, 32, 36, 38, 39, 41, 42, 48-52, 54-57 CAS 28, 29, 32, 36, 38, 39, 41, 42, 48-52, 54-57 CAS 28, 29, 32, 36, 38, 39, 41, 42, 48-52, 54-57	FP-G46851 FP-G49659 FP-IFKISB624V FP-IFKISCQSC FP-IFK188E FP-IFK188L FP-IFK207E FP-IFK207L FP-IFK267L FP-IFK267L FP-IFK301E FP-IFK301E FP-IFK306E FP-IFK306E FP-IFK401E FP-IFK401E FP-IFK401E FP-IFK401E FP-IFK401E FP-IFK401E FP-IFK401E FP-IFK401E FP-IFK401E	CAS 17, 19, 21, 22 CAS 22 CAS 46 CAS 58 CAS 22 CAS 22 CAS 23 CAS 23 CAS 23 CAS 32 CAS 32 CAS 39 CAS 39 CAS 41, 42 CAS 41, 42 CAS 51 CAS 51 CAS 51 CAS 55, 52 CAS 54 CAS 56, 57 CAS 56, 57 CAS 56, 57
FP-A146697 FP-A146697WP FP-A1481351 FP-A148203WS FP-A151075 FP-A151244 FP-A151244WP FP-A1514081 FP-A151897 FP-A151892 FP-A151892 FP-A151991 FP-A152485 FP-A152485 FP-A152485 FP-A153638WS FP-A153638WS FP-A157044	CAS 32, 39, 41, 42, 51, 52, 54-57 CAS 23 CAS 23 CAS 27 CAS 57 CAS 57 CAS 41, 55, 56 CAS 42 CAS 32, 51, 52 CAS 39, 54, 55 CAS 38, 39, 54, 55 CAS 22, 23 CAS 25 CAS 2	FP-A43176 FP-A43177 FP-A44038 FP-A44054 FP-A44054 FP-A460221 FP-A46052 FP-A46052 FP-A46053 FP-A46054 FP-A46382 FP-A46382 FP-A46382 FP-A46387 FP-A50975 FP-A50977 FP-A50978 FP-A50979	48-52, 54-57 CAS 28, 29, 32, 36, 38, 39, 41, 42, 48-52, 54-57 CAS 28, 29, 32, 36, 38, 39, 41, 42, 48-52, 54-57 CAS 22, 23 CAS 42, 57 CAS 42, 57 CAS 39, 54 CAS 41, 56 CAS 13, 17, 19, 21, 22 CAS 23 CAS 41, 56 CAS 41, 56 CAS 41, 56 CAS 23	FP-KST2684A FP-KST2684C	CAS 12 CAS 13 CAS 58 CAS 59 CAS 59 CAS 59 CAS 59 CAS 59 CAS 60 CAS 60 CAS 60 CAS 60 CAS 60 CAS 60 CAS 60 CAS 60
FP-A182186WS FP-A21016 FP-A21076 FP-A23544 FP-A235577 FP-A23658WS FP-A23660 FP-A23660WS FP-A24488WP FP-A26294 FP-A27846 FP-A27846 FP-A27872	CAS 41, 56 CAS 55 CAS 41, 42, 56, 57 CAS 32, 51, 52 CAS 39, 54 CAS 36, 39, 48, 51, 54 CAS 36, 39, 48, 51, 54 CAS 28, 29, 32, 36, 38, 39, 41, 42 CAS 32, 51 CAS 39, 54 CAS 32, 51 CAS 32, 36, 38, 39, 41, 42, 51, 54 CAS 28, 32, 36, 38, 39, 41, 42, 51, 52, 54-57	FP-A51339 FP-A51911 FP-A51911WP FP-A51916 FP-A57139 FP-A57139WP FP-A58580 FP-A58626 FP-A58626 FP-A58628 FP-A58629 FP-A62050 FP-A62050 FP-A62572 FP-A62573 FP-A62573 FP-A62573 FP-A64766	CAS 23 CAS 23 CAS 23 CAS 39, 54 CAS 39, 54 CAS 41, 42, 56, 57 CAS 41, 42, 56, 57 CAS 41, 42, 56, 57 CAS 28, 32, 38, 39, 41, 42, 48, 50-52, 54-57 CAS 54, 55 CAS 54, 55 CAS 38, 39, 48-52, 54-57 CAS 39, 41, 42, 48, 50-52, 54-57 CAS 39, 41, 42, 48, 50-52, 54-57 CAS 39, 41, 42, 49, 51, 52, 54-57 CAS 39, 41, 42, 49, 51, 52, 54-57 CAS 28, 29, 32, 39, 41, 42, 49, 51, 52, 54-57 CAS 39, 54	FP-PGE336EC FP-PGE336LC FP-PGE401DM FP-PGE401LC FP-PGE451EC FP-PGE504EC FP-PGE504EC FP-PG504EC FP-PK0187 FP-PK0188 FP-PK0188 FP-PK0884 FP-PK0842 FP-PK0842 FP-PK12742 FP-PK12742 FP-PK12742 FP-PK12742 FP-PK2106 FP-PK22742A FP-PK22742B	CAS 39 CAS 41, 42 CAS 41, 42 CAS 51 CAS 51, 52 CAS 54, 55 CAS 56, 57 CAS 56, 57 CAS 62 CAS 27 CAS 27 CAS 27 CAS 27 CAS 46 CAS 47 CAS 58 CAS 47 CAS 58 CAS 47 CAS 47 CAS 58 CAS 47 CAS 47 CAS 58 CAS 47 CAS 47 CAS 47 CAS 47 CAS 58 CAS 47
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Part		Part		Part	
No.	Line No.	No.	Line No.	No.	Line No.
FP-RBL002	CAS 62	FP-1226M	CAS 37	FP-2212601	CAS 11, 24
FP-RBU001 FP-RC117A	CAS 62 CAS 6, 7, 17, 21, 22	FP-1227M FP-123558	CAS 6, 7, 12, 13, 17, 19 CAS 60	FP-2212603A FP-2214108	CAS 5, 11, 24 CAS 2, 4
FP-SLG237710	CAS 62	FP-127554	CAS 62	FP-223233	CAS 24
FP-SLG23773 FP-SLG23775	CAS 62	FP-127936 FP-128085	CAS 60	FP-223234A FP-2241CP10	CAS 24 CAS 35
FP-SLG23775 FP-SL11M	CAS 62 CAS 4, 9, 10	FP-128086	CAS 60	FP-2241CP10	CAS 35
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# NOTES

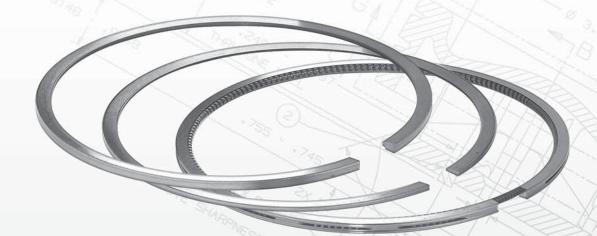






### **Cummins Ring Set Instructions**

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### FP-3802230 Ring Set Instructions Standard (B-Series)

The fire ring, or top ring, is a bright colored keystone ring with a green paint dot marked "top" & "FP8315". The compression ring, or second ring, is a black chamfered ring with a red paint dot marked "top" and "FP2286". Install with the chamfer facing up. The oil ring marked "FP3384" and expander make up the oil control or third ring. The expander gap should be installed 180 degrees from the oil control ring gap. All ring gaps should be installed 90 degrees apart.

### FP-3802232 Ring Set Instructions .50mm Oversize (B-Series)

The fire ring, or top ring, is a bright colored keystone ring with a yellow paint dot marked "top" & "FP9050". The compression ring, or 2nd ring, is black chamfered ring with a yellow paint dot marked "top" & "FP4347". Install with the chamfer facing up. The oil ring marked "FP4349" and expander make up the oil control or 3rd ring. The expander gap should be installed 180 degrees from the oil control ring gap. All ring gaps should be installed 90 degrees apart.

#### FP-3802234 Ring Set Instructions 1.00mm Oversize (B Series)

The fire ring, or top ring, is a bright colored keystone ring with a blue paint dot marked "top" and "FP9051". The compression ring, or 2nd ring, is a black chamfered ring with a blue paint dot marked "top" and "FP4348". Install with the chamfer facing up. The oil ring marked "FP4350" and expander make up the oil control or 3rd ring. The expander gap should be installed 180 degrees from the oil control ring gap. All ring gaps should be installed 90 degrees apart.

### FP-3802429 Ring Set Instructions (6C8.3)

The fire ring, or top ring, is a bright colored keystone ring with a step marked "FP up". Install with the step facing up. The compression or 2nd ring, is a narrower black keystone ring with a step marked "FP up". Install with the step facing down. The oil ring marked "FP" and the expander, make up the oil control or 3rd ring. The expander gap should be installed 180 degrees from the oil control ring gap. All ring gaps should be 90 degrees apart.





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## NOTES







### Valve Stem Seal Identification 5.9L & 6.7L ISB Engines

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## Cummins has made changes to the valve stem seals for ISB engines.

All 24 valve ISB engines utilizing the VP44 injection pump use intake valve stem seal part number FP-3942989 and contain a *Yellow* Viton center.

The exhaust valve stem seal part number FP-3945438 contains a *Green* Viton center.

Both seals are used in engines built between 1998 - 2002.

Engine serial numbers 46239408 & below.

#### **ISB Engine Utilizing VP44 Injection Pump**



Intake
Valve Stem Seal
Yellow Viton® Center
Part No. FP-3942989



Exhaust Valve Stem Seal Green Viton® Center Part No. FP-3945438

## Beginning in 2003 thru 2009, engines with HPCR utilized a "Top Hat" design.

The intake valve stem seal part number is FP-3955393 and contains a *Yellow* Viton center.

The exhaust valve stem seal part number FP-3955394 contains a *Green* Viton center.

Engine serial numbers 46239409 & above.

## ISB Engines with HPCR 2003-2009 Top Hat Design



Intake
Valve Stem Seal
Yellow Viton® Center
Part No. FP-3955393



Exhaust Valve Stem Seal Green Viton® Center Part No. FP-3955394

See catalog inside back cover for the FP Diesel Smart Tip covering Cummins ISB Engine Valve Stem Seals

Viton is a registered trademark of DuPont Performance Elastomers L.L.C.





### Specialty Gasket Sets

### Global Technology Behind Every Part

Available	Part Number	Engine	Description	Comment
1	FP-PGE188EC	4-188	Overhaul Gasket Set	4-188 Small Flange
<b>√</b>	FP-PGE207C	4-188	Overhaul Gasket Set	4-188 Wide Flange
1	FP-PGE207C	4-207	Overhaul Gasket Set	4-207 Early & Late
1	FP-PGE301EC	4-301	Overhaul Gasket Set	4-301D, Early
1	FP-PGE301LC	4-301	Overhaul Gasket Set	4-301BD, Late
1	FP-PGE336EC	4-336	Overhaul Gasket Set	4-336D, Early
<b>√</b>	FP-PGE336LC	4-336	Overhaul Gasket Set	4-336BD, Late
1	FP-PGE451EC	6-451	Overhaul Gasket Set	6-451D, Early
1	FP-PGE451LC	6-451	Overhaul Gasket Set	6-451BD, Late
1	FP-PGE504EC	6-504	Overhaul Gasket Set	6-504D, Early
/	FP-PGE504LC	6-504	Overhaul Gasket Set	6-504BD, Late
/	FP-1349118C1	4-188	Valve Grind Set	4-188 Early Small Flange
1	FP-A189543	4-188/4-207	Valve Grind Set	4-188 Late 4-207 Late
1	FP-A189537	4-188/4-207	Cylinder Block Set	4-188 All
1	FP-A44758	4-188/4-207	Oil Pan Set, Std Transmission	4-188 All
1	FP-A189524	4-188/4-207	Oil Pan Set, Case-o-matic	
1	FP-A189529	4-301	Valve Grind Set	4-301D, Early
1	FP-A189549	4-301	Valve Grind Set	4-301BD, Late
1	FP-A189517	4-301	Cylinder Block Set	4-301D, Early
1	FP-A189538	4-301/6-451	Cylinder Block Set	4-301BD, 6-451BD
1	FP-A42221	4-301	Oil Pan Set, Std Transmission	4-301BD, Late
1	FP-A7616	4-301	Oil Pan Set	4-301 All
1	FP-A189510	4-301	Oil Pan Set	Case-o-matic 4-301
1	FP-A189547	4-336	Valve Grind Set	To ESN 2539000
1	FP-A189546	4-336	Valve Grind Set	From ESN 2539001
<b>√</b>	FP-A189538	4-336/6-504	Cylinder Block Set	All STAGES
1	FP-A189533	4-336	Oil Pan Set	4-336 All
1	FP-A189548	6-451	Valve Grind Set	6-451BD Late
1	FP-A189534	6-451	Oil Pan Set	6-451 All
1	FP-A189545	6-504	Valve Grind Set	To ESN 2539000
1	FP-A189544	6-504	Valve Grind Set	From ESN 2539001
1	FP-A189541	6-504	Oil Pan Set	All



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## Cummins to Case Interchange Global Technology Behind Every Part

Case OE Part No.	Cummins OE Part No.	FP Diesel No.
11370	202951	FP-202951
40602	202964	FP-202964
40602	T202964	FP-202964
40607	202964	FP-202964
40607	T202964	FP-202964
49383	134736	FP-3010937
49383	3010937	FP-3010937
3802040	3802040	FP-3802040
3802050	3802050	FP-3802230
3802050	3802230	FP-3802230
3802050	4638644	FP-3802230
87342670	3950549	FP-3950549
87343194	4089644	FP-4089644
01008D	202964	FP-202964
01008D	T202964	FP-202964
05727AB	202951	FP-202951
0789AB	S684	FP-S684
08569AB	134736	FP-3010937
08569AB	134736	FP-3010937
08569AB	3010937	FP-3010937
08569AB	3010937	FP-3010937
3031K	202951	FP-202951
677692C1	3900267	FP-3900267
689568C1	9272	FP-9272
689568C1	3900216	FP-3920773
689568C1	3920773	FP-3920773
A077441	3008400	FP-3008400
A155267	3901356	FP-3901356
A26413	S684	FP-S684
A27342	3049221	FP-3049221
A27355	212161	FP-212161
A27410	134736	FP-3010937
A27410	134736	FP-3010937
A27410	3010937	FP-3010937
A27410	3010937	FP-3010937

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Case OE Part No.	Cummins OE Part No.	FP Diesel No.
A57708	106276	FP-106276
A57708	202967	FP-202967
A58899	3902102	FP-3911941
A58899	3911941	FP-3911941
A7623	109080	FP-109080
A77441	3008400	FP-3008400
A77705	3060912	FP-3060912
A77718	3800558	FP-3800558
A77754	3283569	FP-3283569
A77901	3800319	FP-3800319
A77970	3943367	FP-3943367
A78020	3800321	FP-3800321
F22582	106276	FP-106276
F22582	202967	FP-202967
F62075	3029820	FP-3029820
F62075	211177	FP-211177
F62075	3029820	FP-3029820
F8890	3063246	FP-3063246
J281721	3281721	FP-3281721
J283333	3283569	FP-3283569
J802820	3922598	FP-3802820
J802820	3802820	FP-3802820
J900267	3900267	FP-3900267
J900808	3900808	FP-3900808
J901356	3901356	FP-3901356
J902666	3930906	FP-3930906
J904374	3904374	FP-3970880
J905443	3905443	FP-3905443
J905443	3905443	FP-3905443
J905449	3905449	FP-3905449
J905595	3905595	FP-3905595
J906222	3906223	FP-3906223
J906359	3937142	FP-3937142





### **Cummins to Case Interchange**

### Global Technology Behind Every Part

Case OE Part No.	Cummins OE Part No.	FP Diesel No.
J907156	3907156	FP-3907156
J907163	3907163	FP-3907163
J907177	3907177	FP-3907177
J907682	3935585	FP-3935585
J908096	3908096	FP-3908096
J909356	3909356	FP-3909356
J911342	3935585	FP-3935585
J911941	3911941	FP-3911941
J912220	3912220	FP-3912220
J913032	3913032	FP-3913032
J913192	3913192	FP-3938655
J913288	3913288	FP-3938655
J914301	3914301	FP-3939353
J914302	3914302	FP-3914302
J914308	3914308	FP-3914308
J914310	3914310	FP-3914310
J914310	3914310	FP-3914310
J914385	3914385	FP-3914385
J917779	3917779	FP-3917779
J917780	3917780	FP-3917780
J917892	3917892	FP-3917892
J918174	3918174	FP-3918174
J918332	3918332	FP-3918332
J918673	3918673	FP-3918673
J918779	3918779	FP-3918779
J919937	3919937	FP-3919937
J920174	3937142	FP-3937142
J921850	3935585	FP-3935585
J923331	3923331	FP-3923331
J924445	3924445	FP-3924445
J924446	3924446	FP-3924446
J924447	3924447	FP-3924447
J926760	3926760	FP-3926760

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Case OE Part No.	Cummins OE Part No.	FP Diesel No.
J927154	3927154	FP-3905443
J927154	3905443	FP-3905443
J928168	3935585	FP-3935585
J928493	3928493	FP-3928493
J929011	3929011	FP-3918332
J929012	3929012	FP-3932063
J929792	3929792	FP-3929792
J930906	3930906	FP-3930906
J931019	3935585	FP-3935585
J931059	3939258	FP-3939258
J931351	3931351	FP-3938156
J932063	3932063	FP-3932063
J935585	3935585	FP-3935585
J937142	3937142	FP-3937142
J937142	3937142	FP-3937142
J937479	3937479	FP-3937479
J938159	3928493	FP-3928493
J938267	3935585	FP-3935585
J939258	3939258	FP-3939258
J942725	3942725	FP-3942725
J942915	3930907	FP-3942915
J942915	3942915	FP-3942915
J943191	3943191	FP-3937479
J943366	3943366	FP-3943366
J944293	3944293	FP-3944293
J944344	3948095	FP-3948095
J944646	3944646	FP-3944646
J944647	3944647	FP-3992090
J948095	3948095	FP-3948095
O8569AB	134736	FP-3010937
O8569AB	3010937	FP-3010937
V14656	212603	FP-212603
XA15821	106276	FP-106276
XA15821	202967	FP-202967
XA21243	106276	FP-106276
XA21243	202967	FP-202967





### FP Diesel ML<sup>711</sup> Head Gaskets

- Patented multi-layer design provides unprecedented strength
- Expanded graphite outer facings fills in minor voids in sealing surfaces
- Stainless steel armors provide robust, long lasting combustion seal
- Solid steel core provides enhanced lateral stability



### Valvetrain Components

- Manufactured to the highest quality standards
- OEM specification materials used with upgrades to super alloys such as stellite, nickel, nimonic and inconel where needed for problem applications
- Available parts include valves, springs, guides, keepers, rotocaps, rocker parts, lifters, seals, seats and more



Commercial, Ag

### www.FMe-cat.com

- Commercial vehicle electronic catalog available at www.FMe-cat.com
- User friendly interface features the most complete product offering and latest coverage data
- Online solution offers fast, easy access to virtual catalog pages covering the thousands of FP Diesel® components
- Eases locating components for heavy-duty applications and enables users to accurately navigate in a virtual catalog environment of commercial vehicles

**GLOBAL TECHNOLOGY** behind every part

